Name_____ ID: 1

#1

Date_____ Period____

Find the value of x.

1)

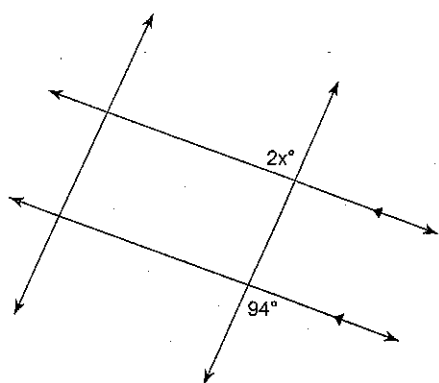

(2x + 1)°

87°

2)

140°

(3x + 2)°

3)

2x°

94°

4)

61°

(1 + 3x)°

5)

67°

(3 + 4x)°

Solve for x.

6)

$x + 68$

$30°$

7)

$70°$

$50°$ $x + 65$

8)

$5x + 5$

$50°$ $80°$

9)

$50°$ $80°$

$11x + 6$

10)

$5x - 5$

$70°$ $60°$

11)

Q —— R
$45°$ $6x + 8$

$10x + 5$ P

B

12)

B

$x + 14$

$11x - 3$ $73°$

G A C

13)

G —— H
$20x$ $-2 + 27x$

$92°$ F

B

14)

B

$50°$

$7x + 17$ $3x + 3$

N C A

15)

W —— U —— E
$7x - 8$ $93°$

$2x + 2$

V
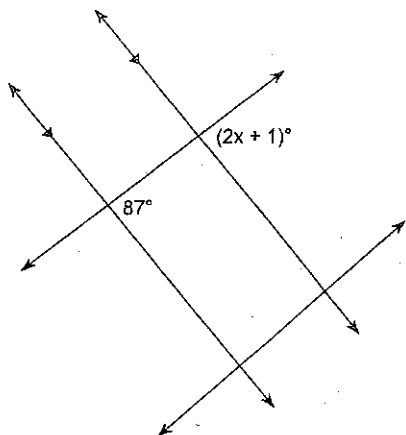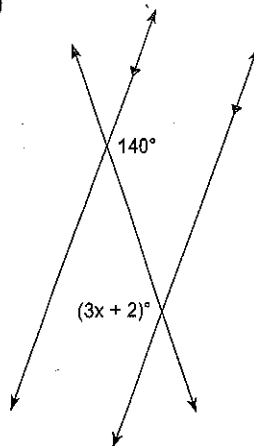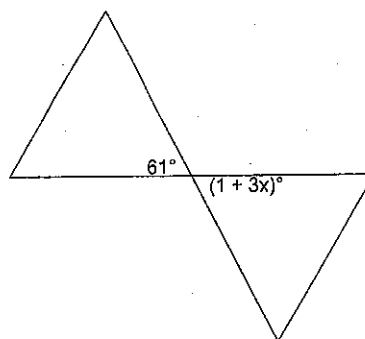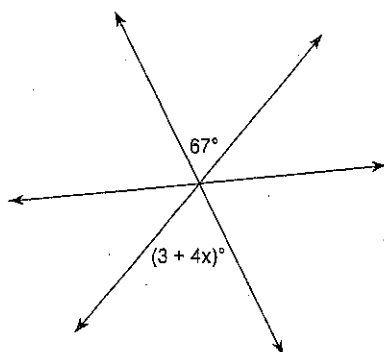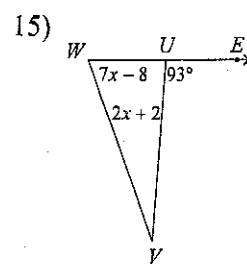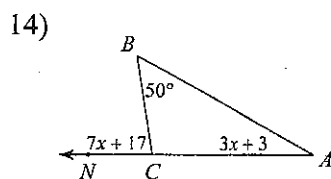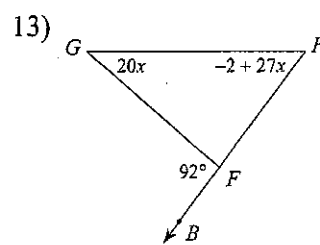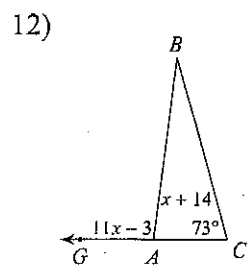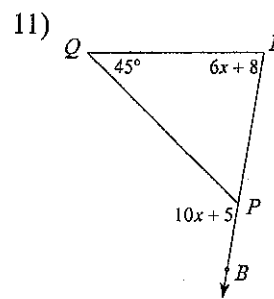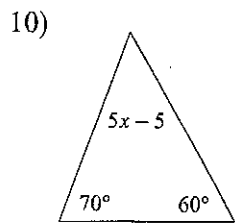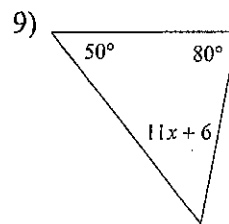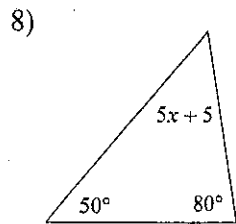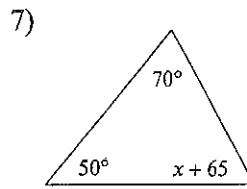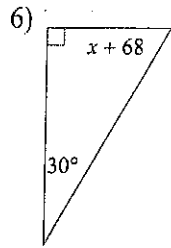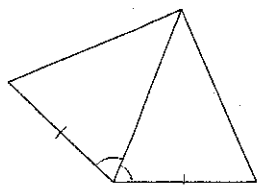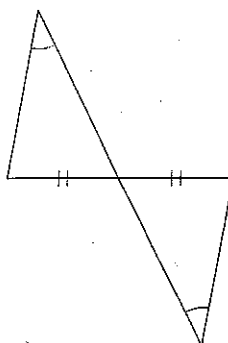
State if the two triangles are congruent. If they are, state how you know.

16)

17)

18)
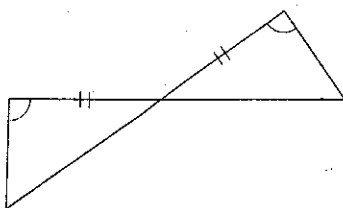
19)

20)

Find the value of x.
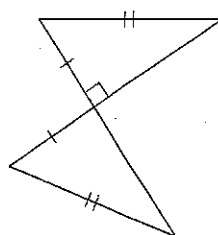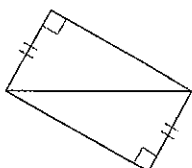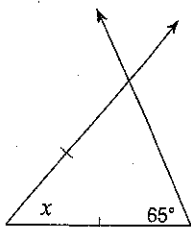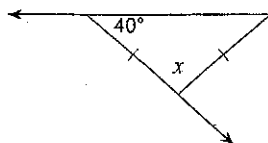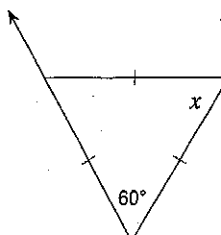
21)

65°

x

22)

76°   x

23)

40°

x

24)

60°

x

25)

x 118°

Solve for x.

26)

$-6 + 3x$

$-7 + 2x$

27)

$2x - 4$

$3x - 2$

28)

$x + 16$

$x + 24$

29)

$x + 30$

$x + 20$

30)

$2x + 8$

$2x - 4$

Geometry Honors

Name_____ ID: 1

Final Exam Review #2

Date_____ Period____
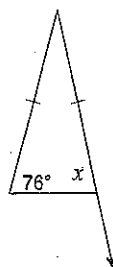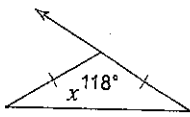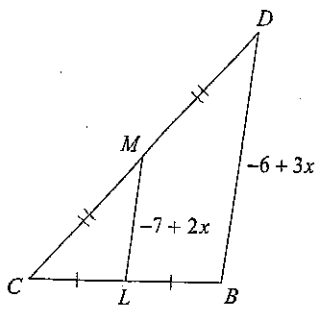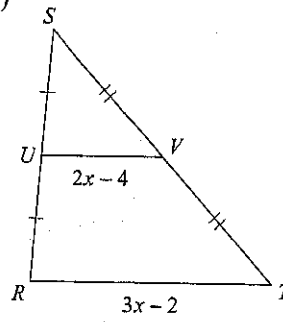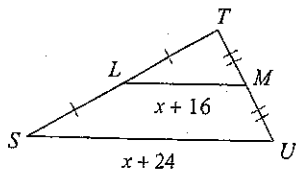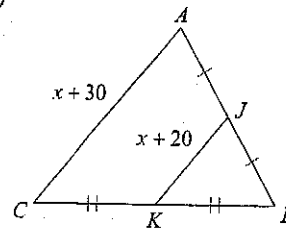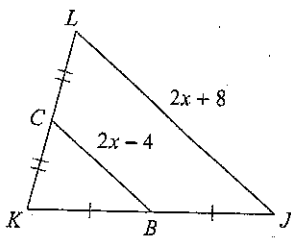
Each figure shows a triangle with one or more of its medians.

1) Find KE if $EC = 2.5$

2) Find EL if $EC = 12$

3) Find WR if $WH = 15.9$

4) Find LE if $LA = 6$
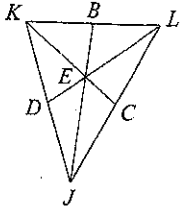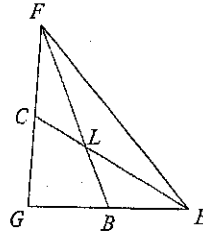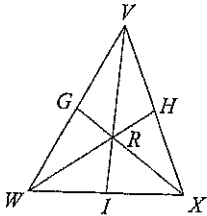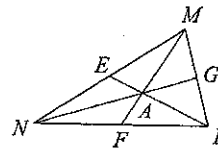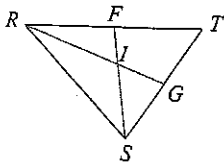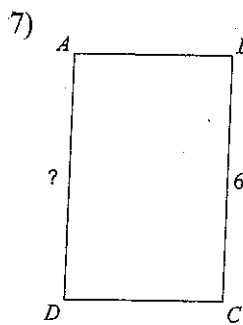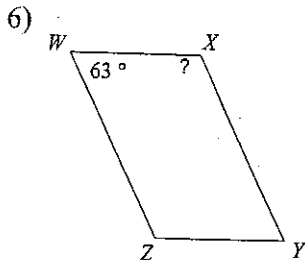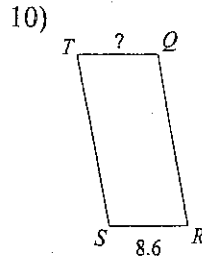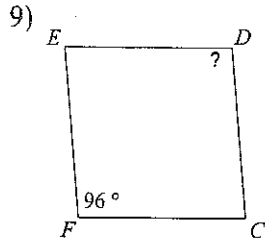

5) Find SI if $IF = 7.6$

Find the measurement indicated in each parallelogram.

6)

7)

8)

9)

10)
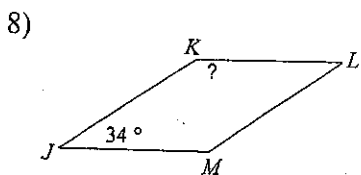
Find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

11) regular 16-gon

12) regular 13-gon

13) regular 20-gon

14) regular 22-gon

15) regular 23-gon

Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.
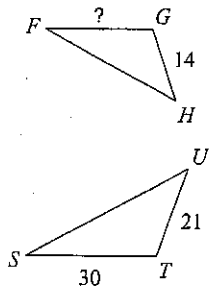
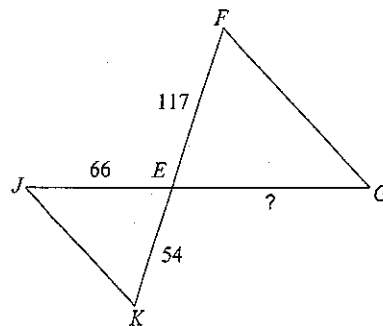16) regular quadrilateral

17) regular 22-gon

18) regular octagon

Find the missing length. The triangles in each pair are similar.
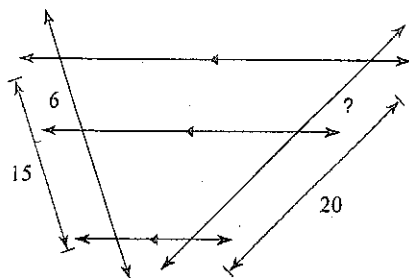
19) $\triangle STU \sim \triangle FGH$
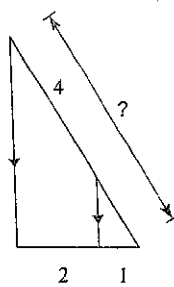

20) $\triangle EFG \sim \triangle EKJ$

-2-

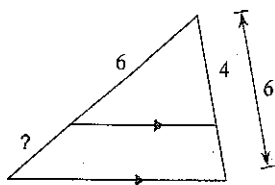Find the missing length indicated.

21)

22)

23)

24)

25)

Name_____ ID: 1

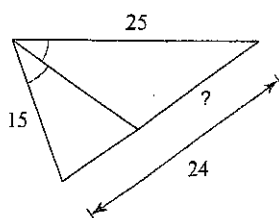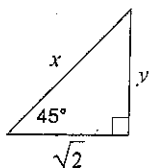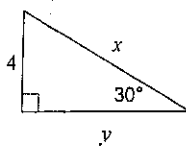## Final Exam Review #3

Date_____ Period____
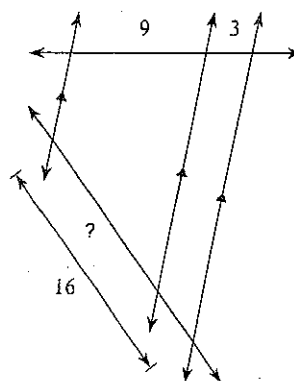
Find the missing side lengths. Leave your answers as radicals in simplest form.

1)

2)

3)
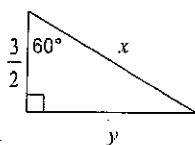
4)
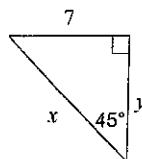
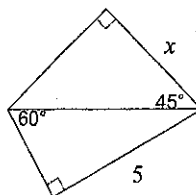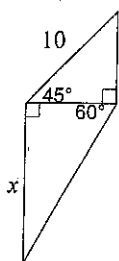
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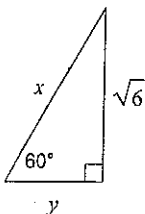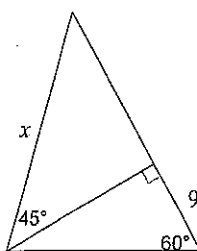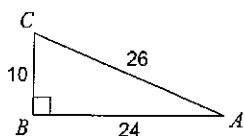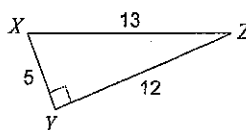

6)

7)

8)

Find the value of each trigonometric ratio.

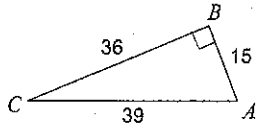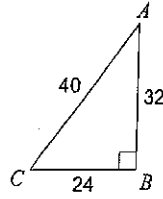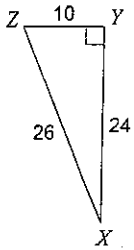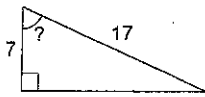9) $\tan C$

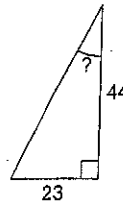10) $\cos Z$

11) cos C

12) tan A

13) tan X

Find the measure of the indicated angle to the nearest degree.

14)

15)

16)

17)

18)

Geometry Honors   Name_____ ID: 1
Final Exam Review #4   Date_____ Period____
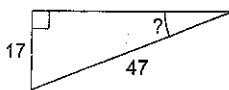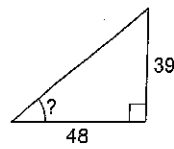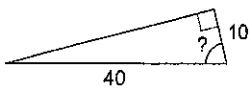
State the most specific name for each figure.

1)

2)

3)

4)

5)

Solve for x.

6)

R ____ S
$95°$ $95°$

$85°$ $15x - 5$
Q ____ T

7)

L _____ M
         $11x + 13$

         $11x + 13$
K _____ N

8)

S ____ V
$79x + 1$ $85°$

$100°$ $95°$
T ____ U

9)

U ____ V
$65°$ $102°$

  $24x + 6$ $91°$
              W
X

10)

B 88°
A 19x + 6
C 86°
D 85°
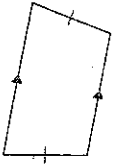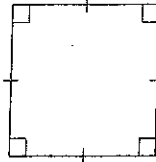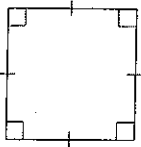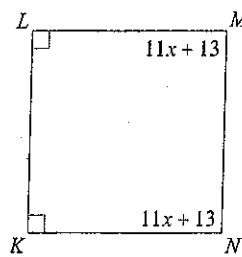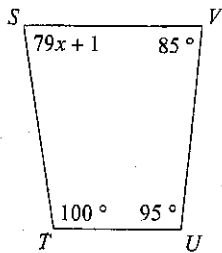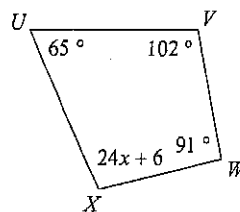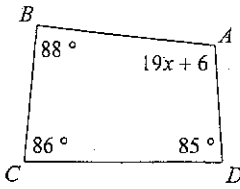
Solve for x. Each figure is a parallelogram.

11)

$2x - 13$

J   M
K   L
9

12)

C   F
75°
D $38x - 1$ E

13)

V $x + 6$ Y
W   X
18

14)

T 19 U
S $x + 7$ V
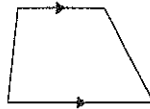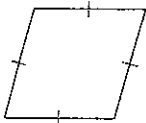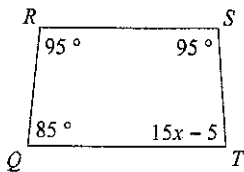
15)

V W
$5x - 3$
12
U   T
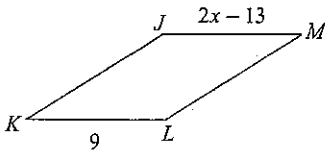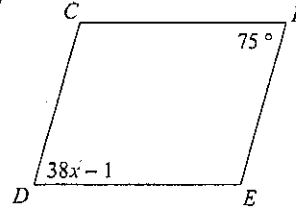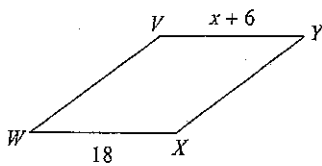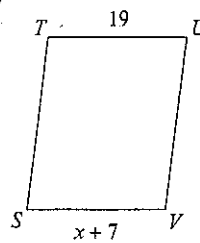
Find the coordinates of the vertices of each figure after the given transformation.

16) reflection across $y = -1$

17) rotation 180° about the origin

 Made with Infinite Geometry.

18) rotation 180° about the origin
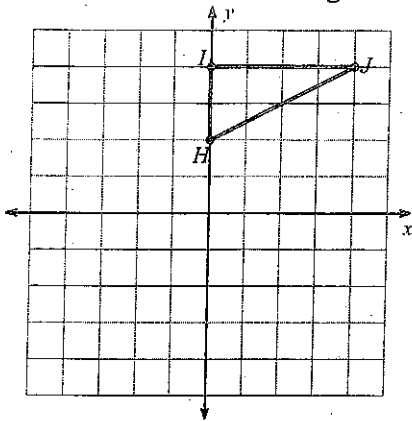
19) translation: $(5, 3)$
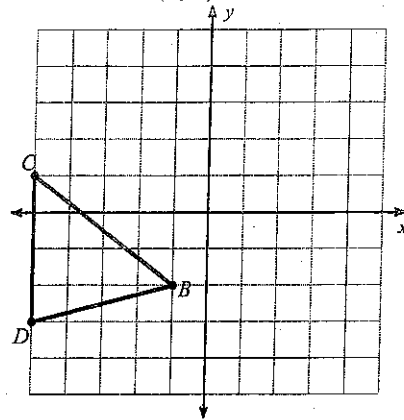
20) reflection across $y = -x$

21) translation: $(-1, 7)$
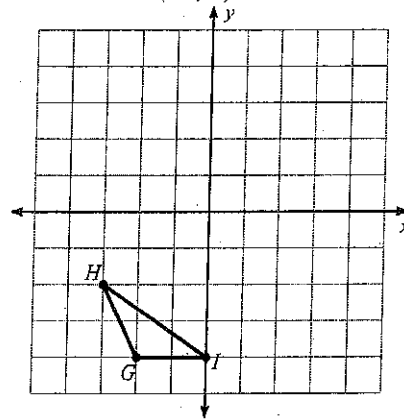
Answers to #1 (ID: 1)

1) 43
2) 46
3) 47
4) 20
5) 16
6) −8
7) −5
8) 9
9) 4
10) 11
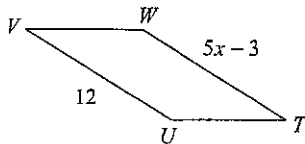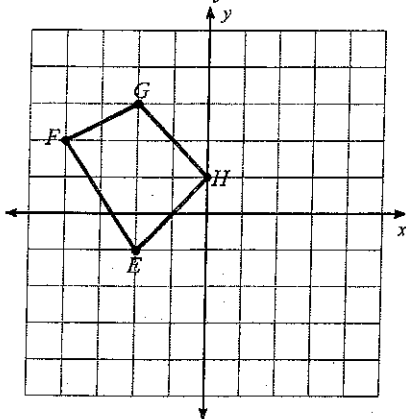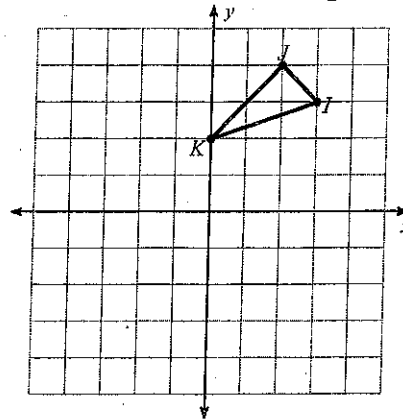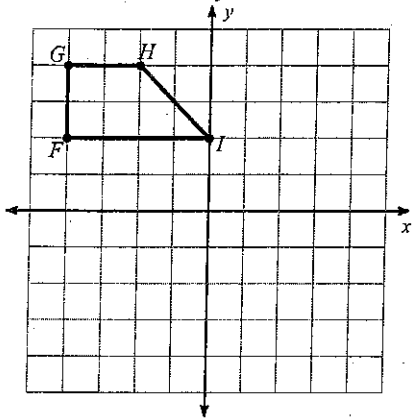11) 12
12) 9
13) 2
14) 9
15) 11
16) SAS
17) AAS
18) ASA
19) HL
20) HL
21) 50°
22) 76°
23) 100°
24) 60°
25) 31°
26) 8
27) 6
28) −8
29) −10
30) 8

Answers to Final Exam Review #2 (ID: 1)

1) 5
2) 8
3) 10.6
4) 9
5) 15.2
6) 117°
7) 6
8) 146°
9) 96°
10) 8.6
11) 157.5°
12) 152.3°
13) 162°
14) 163.6°
15) 164.3°
16) 360°
17) 3600°
18) 1080°
19) 20
20) 143
21) 8
22) 6
23) 3
24) 12
25) 15

Answers to Final Exam Review #3 (ID: 1)

1) $x = 2,\ y = \sqrt{2}$
2) $x = 8,\ y = 4\sqrt{3}$
3) $x = 3,\ y = \dfrac{3\sqrt{3}}{2}$
4) $x = 7\sqrt{2},\ y = 7$

5) $x = 2\sqrt{2},\ y = \sqrt{2}$
6) $\dfrac{5\sqrt{6}}{3}$
7) $5\sqrt{6}$
8) $9\sqrt{6}$

9) $\dfrac{12}{5}$
10) $\dfrac{12}{13}$
11) $\dfrac{12}{13}$
12) $\dfrac{3}{4}$

13) $\dfrac{5}{12}$
14) 66°
15) 28°
16) 21°

17) 39°
18) 76°

Answers to Final Exam Review #4 (ID: 1)

1) isosceles trapezoid
2) square
3) square
4) trapezoid
5) rhombus
6) 6
7) 7
8) 1
9) 4
10) 5
11) 11
12) 2
13) 12
14) 12
15) 3
16) $F'(-4, -4),\ G'(-2, -5),\ H'(0, -3),\ E'(-2, -1)$
17) $K'(0, -2),\ J'(-2, -4),\ I'(-3, -3)$
18) $H'(0, -2),\ I'(0, -4),\ J'(-4, -4)$
19) $D'(0, 0),\ C'(0, 4),\ B'(4, 1)$
20) $G'(-4, 4),\ H'(-4, 2),\ I'(-2, 0),\ F'(-2, 4)$
21) $G'(-3, 3),\ H'(-4, 5),\ I'(-1, 3)$