HW

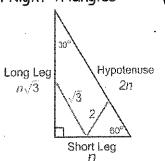
Trigonometry Prerequisite: Special Right Triangles



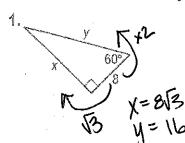
Special Right Triangles: 20° - 66° - 90°

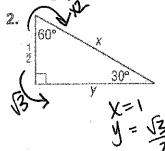
Hypotenuse = 2 * Short Leg

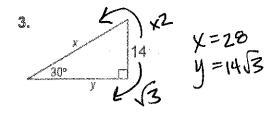
Long Leg = Short Leg * $\sqrt{3}$

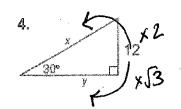


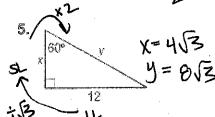
Find the value of x and y in each triangle.

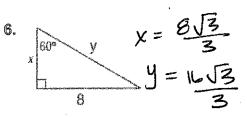


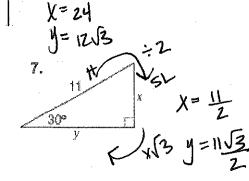




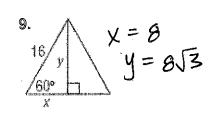






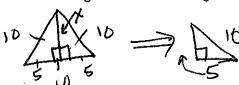


8.
$$60^{\circ}$$
 6 $X=3$



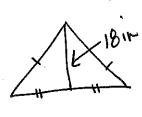
Sketch the figure that is described. Then, find the requested measure.

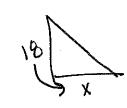
10. An equilateral triangle has a side length of 10 inches. Find the length of the triangles altitude.



(Height)

11. The altitude of an equilateral triangle is 18 inches. Find the length of a side.





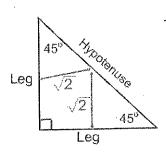
WHA
$$\frac{18}{13}$$
 $\frac{3}{3}$ = $\frac{16\sqrt{3}}{3}$
SHAMHANAN/H
 $X = 1\sqrt{3} \rightarrow 2(1/3) = 1/2\sqrt{3}$

Trigonometry Prerequisite: Special Right Triangles

Special Right Triangles: 45° - 45° - 90°

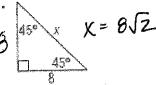
Hypotenuse = Leg * $\sqrt{2}$ $\sqrt{2}$

$$Leg = \frac{hypotenuse}{\sqrt{2}}$$

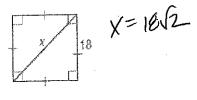


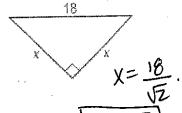
Find the value of x in each triangle.

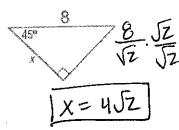


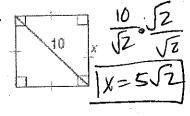






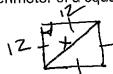






Sketch the figure that is described. Find the requested measure.

7. The perimeter of a square is 48 meters. Find the length of a diagonal.

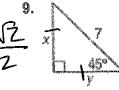


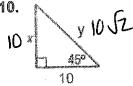
$$\frac{15}{5} \frac{5-12}{12\sqrt{2}}$$

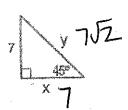
8. The perimeter of a square is 20 cm. Find the length of a diagonal.

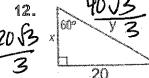


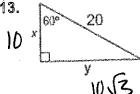
Find the value of x and y in each figure.











14.

