1. ![[image]]() Determine whether Point A (5, 3) lies on the circle whose center is Point C (1, 1) and which contains the Point P(-2, 5). You must show your work.
2. ![[image]]()Classify the triangle as isosceles, equilateral or scalene. Determine if the triangle is a right. Given that the following are vertices of the triangle: (0, -2), (0,2) and (4,0).

![[image]]()

1. Given the following points: A(-5,6), B(3,7), C(4, -1) and D(-4, -2) please determine the type of quadrilateral. Choose the most specific one possible. You must justify your answer with algebraically.
2. ![[image]]()Write the equation of the line through the point (3,3) for the line perpendicular to y = -1/3x + 5.
3. ![[image]]()Write the equation of the line through the point (0, 7) for the line parallel to 3x + 4y = 12.
4. ![[image]]()Given the directed segment from A(5,4) to B(0, 14) partition the segment with point P in a ratio of 2:3.