

**Worksheet - Centroid, Circumcentre, Orthocentre**

Date: \_\_\_\_\_

A) Find the coordinates of the **centroid** given the vertices of the following triangles.

1. P(-6, 9), Q(6, 1), R(-6, -7)      *Solution (-2, 1)*
2. A(12, 18), B(18, 6), C(3, 12)      *Solution (11, 12)*
3. W(-6, 7), X(4, 4), Y(-1, -2)      *Solution (-1, 3)*

B) Find the coordinates of the **circumcentre** given the vertices of the following triangles.

1. D(5, 1), E(-2, 0), F(4, 8)      *Solution (1, 4)*
2. J(-2, 0), K(2, 8), L(7, 3)      *Solution (2, 3)*
3. L(4, 0), M(-2, 4), N(0, 6)      *Solution (7/5, 13/5)*
4. A(4, 12), B(14, 6), C(-6, 2)      *Solution (9/2, 3/2)*

C) Find the coordinates of the **orthocentre** given the vertices of the following triangles.

1. D(-2, 5), E(5, 1), F(-4, -5)      *Solution (0, 2)*
2. P(-1, 5), Q(7, 2), R(-1, -4)      *Solution (5/4, 2)*