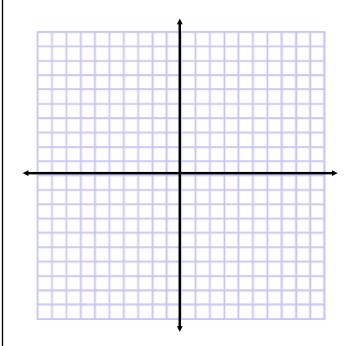
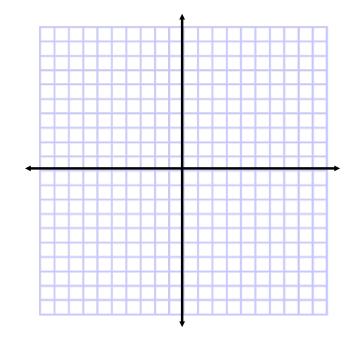
| 6.7 Polygons in the Coordinate Plane |
|--|
| Objective: To classify polygons in the coordinate plane. |
| |
| Distance Formula: |
| |
| Midpoint Formula: |
| |
| Slope Formula: |
| |
| |
| |
| |

Example 1: Triangle DEF has vertices D(0, 0), E(1, 4), and F(5, 2). Is triangle DEF scalene, isosceles, or equilateral?



Example 2: Parallelogram MNPQ has vertices M(0,1), N(-1,4), P(2,5), and Q(3,2). Is MNPQ a rectangle or a square?



Example 3: An isosceles trapezoid has vertices A(0, 0), B(2, 4),

C(6, 4) and D(8, 0). What special quadrilateral is formed by connecting the midpoints of the sides of ABCD?

