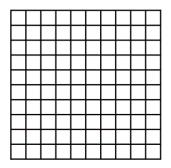
Sec1H

Homework 6-3 Applications of Distance Formula

Unit 6

Calculate the perimeter of each of the polygons below.

1. Triangle ABC has vertices A (-2, 1), B (-3, 5), C (3, 6).



2. Quadrilateral ABCD has vertices A(-4, 0), B(-2, 3), C(2, 3), and D(2, 0).

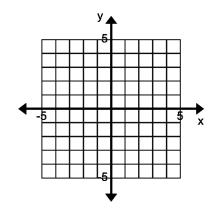
3. Parallelogram ABCD has vertices A(-5, 4), B(-1, 6), C(5, 2), and D(1, 0).

In #4-7, calculate the area of each polygon.

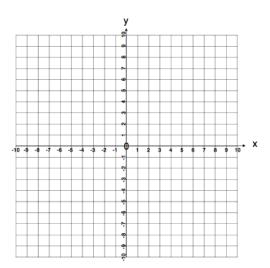
4. Rectangle ABCD has vertices A(-5, 2), B(-5, 4), C(4, 4), and D(4, 2).

5. Rectangle ABCD has vertices A(-4, -4), B(0, 2), C(9, -4), and D(5, -10).

6. Triangle ABC has vertices A(-2, 5), B(3, 1), and C(3, 5). (You can use the graph on the right if you want- you do not have to.)



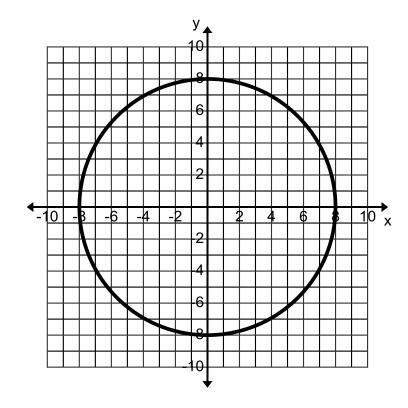
7. Triangle ABC has vertices A(3, 5), B(7, 8), and C(5, -3). (You can use the graph on the right if you want- you do not have to.)



8. Given this circle with an origin of the center, determine if the points are on the circle.

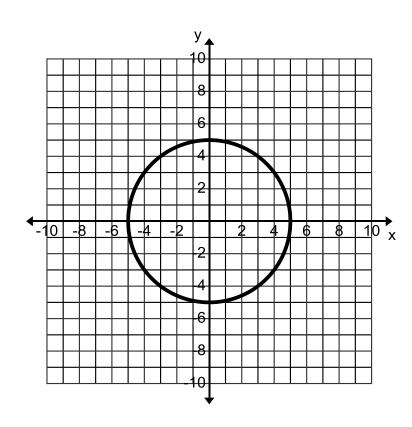






9. Given this circle with an origin of the center, determine if the points are on the circle.

b.
$$(\sqrt{3}, \sqrt{22})$$



10. Given a circle with radius 3 and centered at (2, 4): determine if the following points are on the circle.

a. (1, 1)

b. (5, 4)

