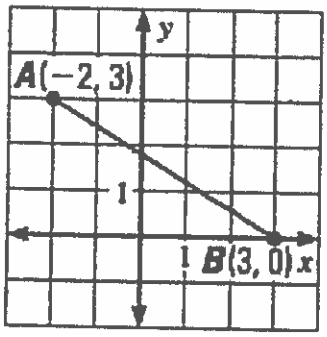
Name: _____ Date: _____

Pythagorean Theorem / Distance Formula

Use the Pythagorean Theorem / Distance Formula to find the lengths of the missing sides.

1.



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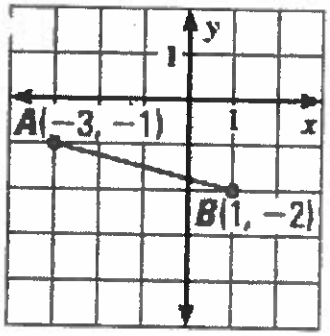

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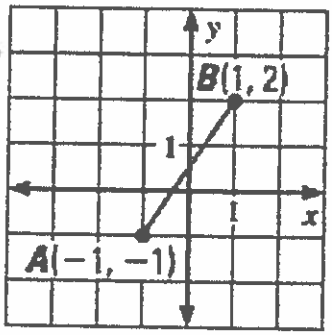

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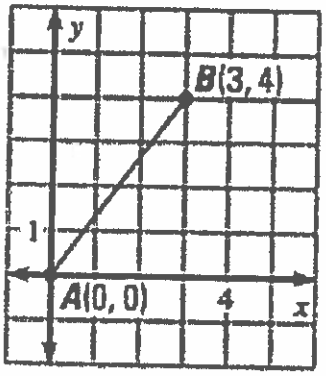

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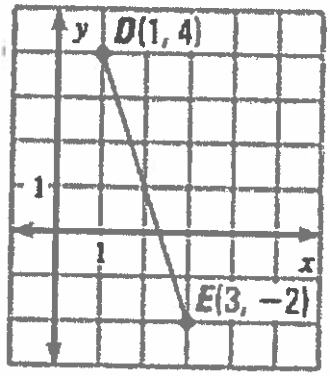
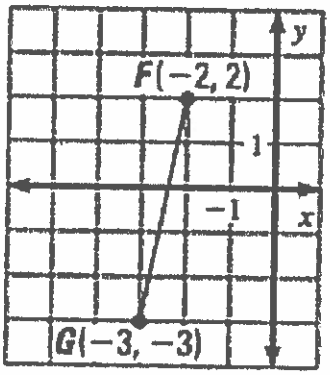
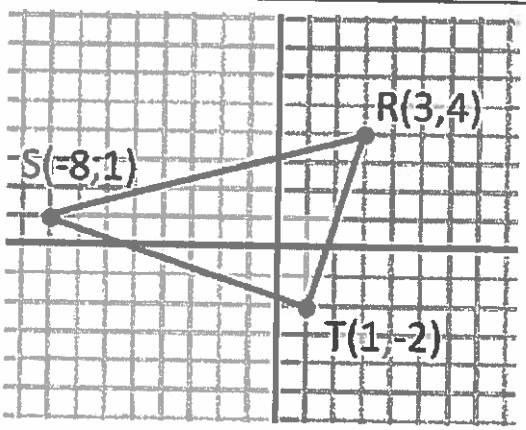


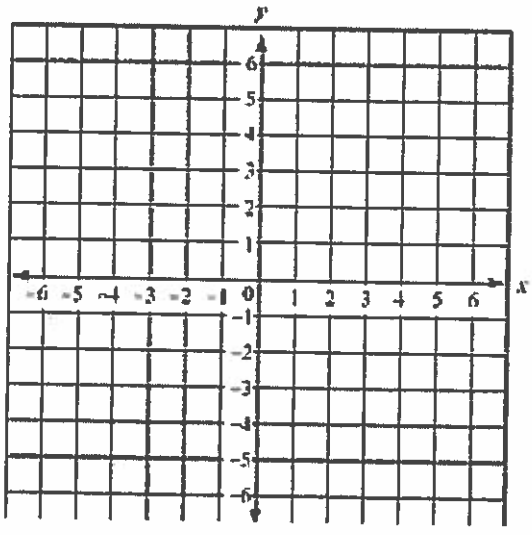
6.



7. Find the perimeter of the figure.



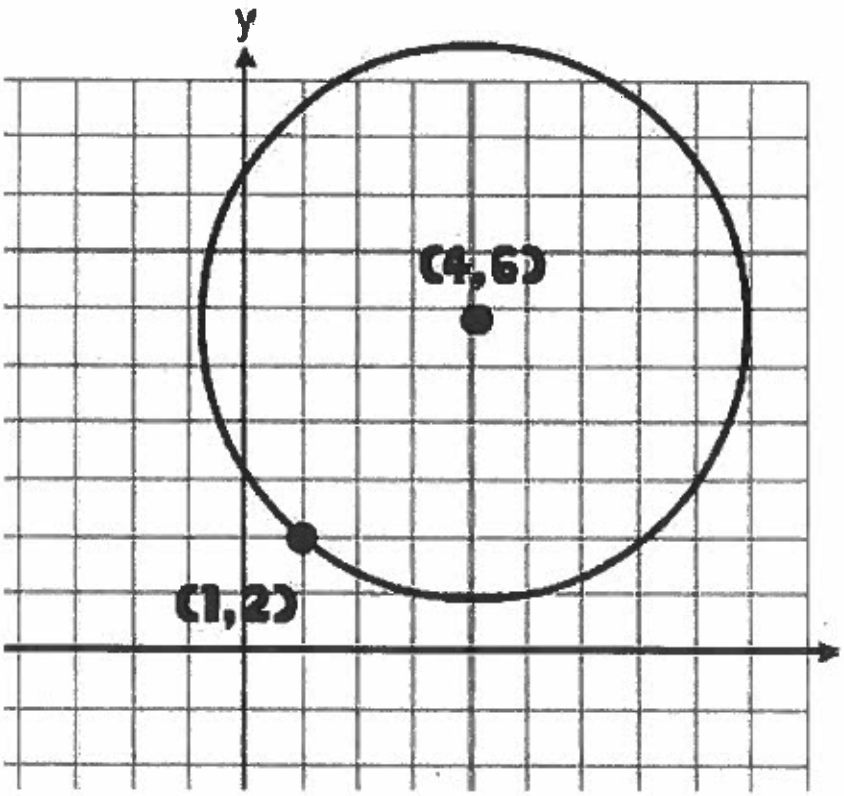
8. Graph triangle FUN, F(-2,1), U(1,3), and N(-2,5) . Find the length of each side. Can the triangle be classified as scalene, isoceles, or equilateral?



9) What is the distance between points A(-6,3) and B(6,8)?

Think pair share

How can you use the distance formula to solve problems like the following one:
The point (1,2) lies on a circle. What is the length of the radius of this circle if the center is located at (4,6)?



Part II.

1) The point (5,4) lies on a circle. What is the length of the radius of this circle if the center is located at (3,2)?

2) The point (-2,-1) lies on a circle. What is the length of the radius of this circle if the center is located at (0, 4)?

3) The point (4 ,5) lies on a circle. What is the **diameter** of this circle if the center is located at (7, 9)?