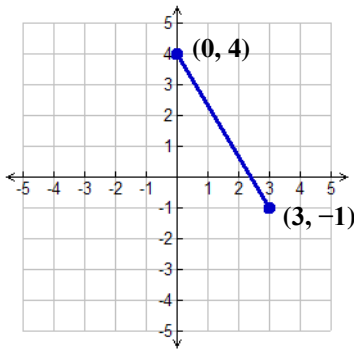


## Lesson 2.7 ~ The Distance Formula

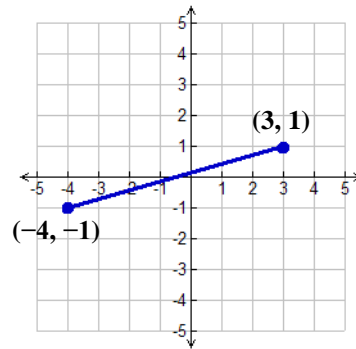
Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

Use the distance formula to calculate the length of each segment. Round to the nearest tenth.

1.



2.



Find the distance between each pair of points. If necessary, round to the nearest tenth.

3.  $(2, 2)$  and  $(8, 10)$

4.  $(3, 9)$  and  $(-1, 10)$

5.  $(-7, 6)$  and  $(0, 5)$

6.  $(17, -6)$  and  $(2, 1)$

7.  $(0, -9)$  and  $(-2, 3)$

8.  $(0, 1.5)$  and  $(3, 12)$

9.  $\triangle ABC$  is formed by the points  $A(-4, 5)$ ,  $B(3, 2)$  and  $C(1, -1)$ .

a. Find the length of  $\overline{AB}$ . Round to the nearest tenth.

b. Find the length of  $\overline{BC}$ . Round to the nearest tenth.

c. Find the length of  $\overline{CA}$ . Round to the nearest tenth.

d. Find the approximate perimeter of the triangle.