NAME _____ DATE _____ PERIOD _____

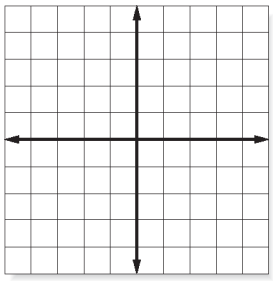
Lesson 5 Homework Practice

Distance on the Coordinate Plane

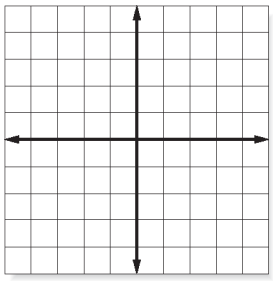
Select this link to watch a video on the distance formula

Graph each pair of ordered pairs. Then determine the distance between the points using the Pythagorean Theorem. Round to the nearest tenth if necessary.

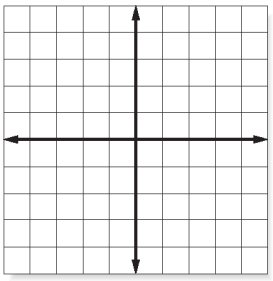
1. (4, 3), (1, –1)



2. (3, 2), (0, –4)



3. (–4, 3.5), (2, 1.5)



Use the Distance Formula to determine the distance between each pair of points. Round to the nearest tenth if necessary.

4. $W(2, 5)$, $U(-4, 3)$

5. $A(-1, 7)$, $B(-3, -5)$

6. $P(1, 1)$, $Q(-1, -1)$

7. $M(5, -3)$, $N(9, 1)$

8. $C(-4, -8)$, $D(2, 2)$

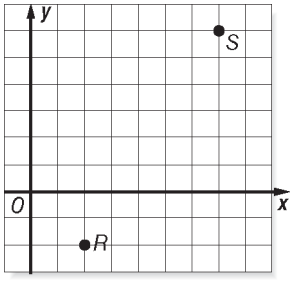
9. $R(-4, 2)$, $S(-4, -9)$

10. $E\left(\frac{1}{2}, 4\frac{1}{4}\right), F\left(5, -\frac{1}{2}\right)$

11. $J(5.4, -3.2)$, $K(4, -1.2)$

12. $A\left(5\frac{1}{5}, 2\right), B\left(-1, 2\frac{1}{5}\right)$

13. Determine the distance between points R and S shown at the right. Round to the nearest tenth.



14. If one point is located at (–6, 2) and another point is located at (6, –3), find the distance between the points.