HW 7-7: Distance on a Coordinate Plane

Find the distance between the two points. Write your answers as simplified radicals and decimals. Round to the nearest tenth if necessary.

1.

$(-3,2)$
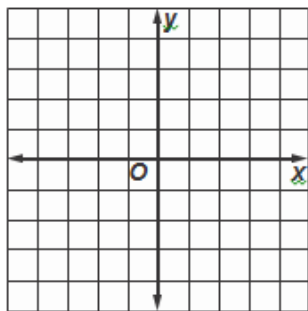
$(2,-1)$

2.

$(0,1)$

$(-2,-1)$

3.

$(-1,-2)$ $(4,-2)$

4.

$(5,6)$

$(2,3)$

5.

$(3,3)$

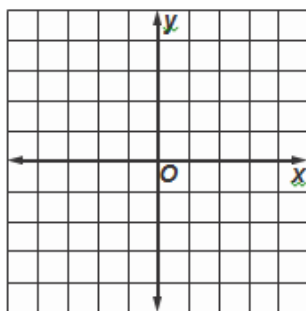$(-2,2)$

6.

$(1,-1)$

$(4,-3)$
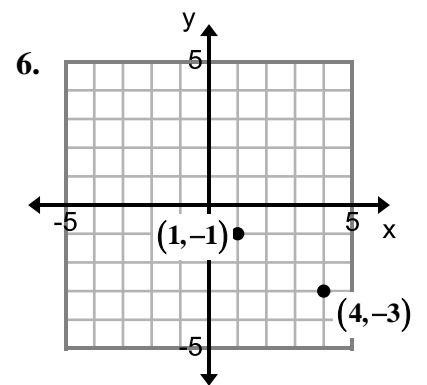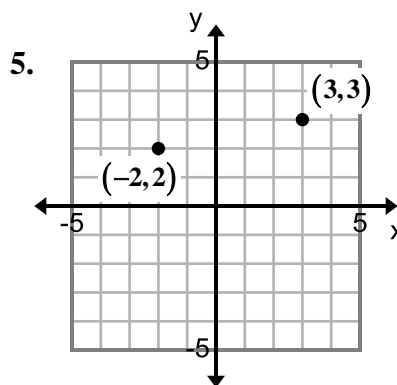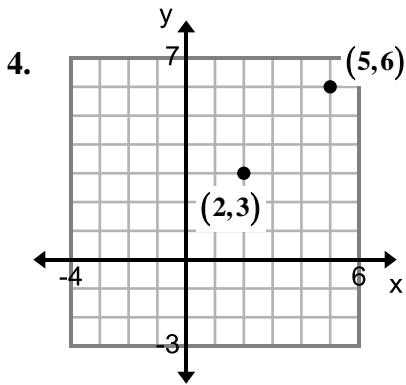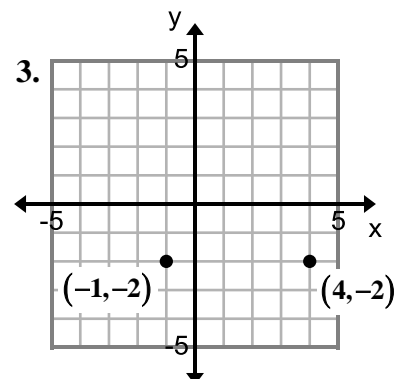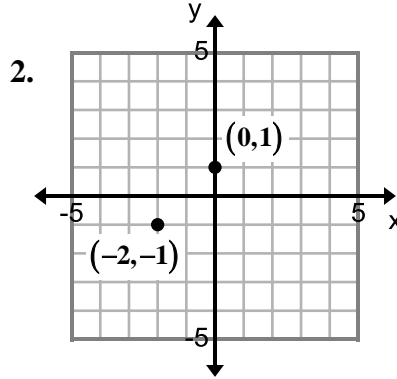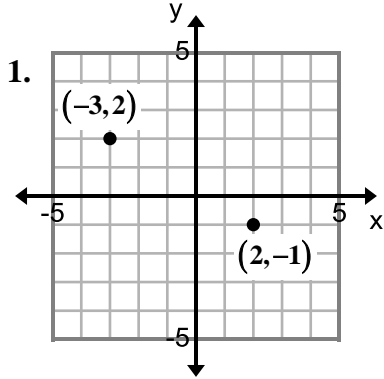
Graph each pair of ordered pairs. Then find the distance between the points. Write your answers as simplified radicals and as decimals. Round to the nearest tenth if necessary.
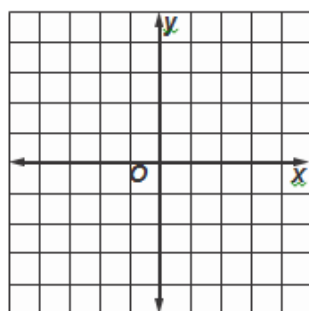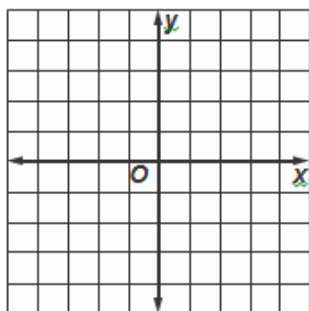
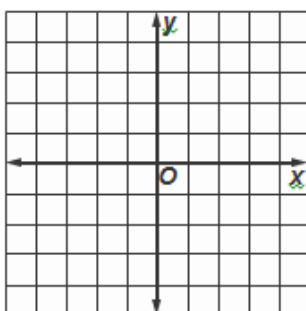**7.** $(-3, 0), (3, -2)$

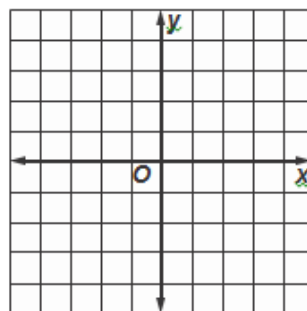**8.** $(-4, -3), (2, 1)$

9. $(0, 2), (5, -2)$

10. $(-2, 1), (-1, 2)$

11. $(0, 0), (-4, -3)$

12. $(-3, 4), (2, -3)$

Find the distance between the points. You can use either method (Distance Formula or Pythagorean Theorem). Write your answers as simplified radical and as decimals. Round to the nearest tenth if necessary.

13. $(-5,1)$, $(2,-3)$ 14. $(5,-1)$, $(11,7)$ 15. $(-3,5)$, $(2,7)$

16. $(7,-9)$, $(4,3)$ 17. $(5,4)$, $(-3,8)$ 18. $(-8,-4)$, $(-3,8)$

BONUS:

Graph <u>both</u> pairs of ordered pairs on the same graph. Find the distance between $(-4,-1)$ and $(-5,7)$

AND $(-4,-1)$ and $(-3,-8)$