Practice 1-7

Distance in the Coordinate Plane

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

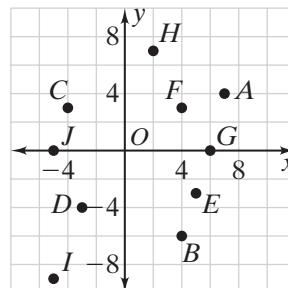**1.** $A(7, 4)$ and $H(2, 7)$

_____

2. $C(-4, 3)$ and $G(6, 0)$

_____

3. $B(4, -6)$ and $D(-3, -4)$

_____

4. $E(5, -3)$ and $C(-4, 3)$

_____

5. $B(4, -6)$ and $I(-5, -9)$

_____

6. $E(5, -3)$ and $F(4, 3)$

_____

7. Arnie plotted points on the graph on the right. He placed his pencil point at *A*. He can move either right or down any whole number of units until he reaches point *B*. In how many ways can he do this?

_____
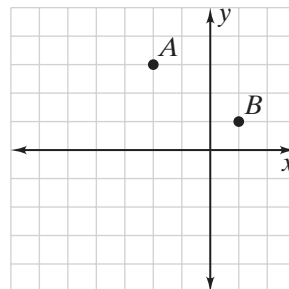
8. Marika had to draw △ *ABC* that fit several requirements.
   a. It must fit on the grid shown.
   b. The endpoints of $\overline{AB}$ have coordinates $A(-2, 0)$ and $B(2, 0)$.
   c. Point *C* must be on the *y*-axis and its *y*-coordinate is an integer.

   Name all the points that could be point *C*.

_____

_____

_____