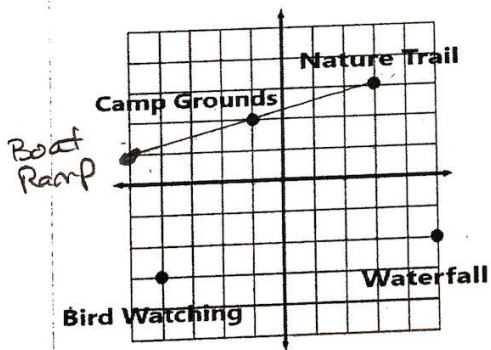


Warm-up

The endpoint of a segment is at (8, 2). The midpoint of a segment is at (10, -5). What is the other endpoint?

$$\begin{array}{l}
 E \quad (8, 2) \quad \left. \begin{array}{l} +2 \\ -7 \end{array} \right\} \\
 M \quad (10, -5) \quad \left. \begin{array}{l} +2 \\ -7 \end{array} \right\} \\
 E \quad (12, -12)
 \end{array}$$

$$\begin{array}{r}
 2 + x = -5 \\
 -2 \quad -2 \\
 \hline
 x = -7
 \end{array}$$



The Camp Grounds is the midpoint between the nature trail and the boat ramp. Where is the boat ramp?

$$\begin{array}{l}
 \boxed{\text{Nature Trail}} \quad E \quad (3, 3) \quad \left. \begin{array}{l} -4 \\ -1 \end{array} \right\} \\
 \boxed{\text{Camp Grounds}} \quad M \quad (-1, 2) \quad \left. \begin{array}{l} -4 \\ -1 \end{array} \right\} \\
 \boxed{\text{Boat Ramp}} \quad E \quad (-5, 1)
 \end{array}$$

$$\begin{array}{r}
 3 + x = -1 \\
 -3 \quad -3 \\
 \hline
 x = -4
 \end{array}$$