

Distance Formula | Finding the Missing Coordinates

Find the value of each unknown variable using the given distance and endpoints.

1) $(-10, 8)$, $(t, 8)$, distance = 10 units

$t =$ _____

2) $(-4, v)$, $(-6, 4)$, distance = 2 units

$v =$ _____

3) $(w, 10)$, $(-5, -5)$, distance = 15 units

$w =$ _____

4) $(10, 6)$, $(x, -6)$, distance = 12 units

$x =$ _____

5) $(-7, -4)$, $(6, y)$, distance = 13 units

$y =$ _____

6) $(d, 2)$, $(-5, 5)$, distance = 5 units

$d =$ _____

7) The endpoints of the diagonal of a rectangle are $(0, 3)$ and $(p, 3)$, and its length is 3 units. Find the value of p .

$p =$ _____

8) The endpoints of one of the sides of a square are $(4, m)$ and $(8, 5)$. The length of the side is 5 units. Find the value of m .

$m =$ _____