**Name:** _____

## Slope

Use slope formula to find the missing coordinate.

| | | |
|---|---|---|
| 1) $(-2, 0)$ and $(a,\ 3)$;<br><br>$Slope = \dfrac{3}{8}$<br><br><br><br>$a = \Box$ | 2) $(4, x)$ and $(2,\ 8)$;<br><br>$Slope = -\dfrac{9}{2}$<br><br><br><br>$x = \Box$ | 3) $(7, 6)$ and $(3, r)$;<br><br>$Slope = \dfrac{1}{4}$<br><br><br><br>$r = \Box$ |
| 4) $(0, 6)$ and $(4,\ m)$;<br><br>$Slope = \dfrac{1}{2}$<br><br><br><br>$m = \Box$ | 5) $(s, 2)$ and $(11, 6)$;<br><br>$Slope = \dfrac{4}{9}$<br><br><br><br>$s = \Box$ | 6) $(1, -6)$ and $(y, 7)$;<br><br>$Slope = -\dfrac{13}{2}$<br><br><br><br>$y = \Box$ |
| 7) $(z, 2)$ and $(-2, 9)$;<br><br>$Slope = -1$<br><br><br><br>$z = \Box$ | 8) $(5, 3)$ and $(1, p)$;<br><br>$Slope = \dfrac{3}{4}$<br><br><br><br>$p = \Box$ | 9) $(4, c)$ and $(9, 7)$;<br><br>$Slope = \dfrac{4}{5}$<br><br><br><br>$c = \Box$ |
| 10) $(0, 2)$ and $(d, 5)$;<br><br>$Slope = -\dfrac{3}{2}$<br><br><br><br>$d = \Box$ | 11) $(z, -2)$ and $(-2, 10)$;<br><br>$Slope = 6$<br><br><br><br>$z = \Box$ | 12) $(1, -3)$ and $(4, w)$;<br><br>$Slope = \dfrac{10}{3}$<br><br><br><br>$w = \Box$ |
| 13) $(-2, t)$ and $(3, 4)$;<br><br>$Slope = -1$<br><br><br><br>$t = \Box$ | 14) $(q, 0)$ and $(4, 8)$;<br><br>$Slope = 4$<br><br><br><br>$q = \Box$ | 15) $(2, 3)$ and $(s, 0)$;<br><br>$Slope = -\dfrac{3}{5}$<br><br><br><br>$s = \Box$ |

## Answers:

1) $(-2, 0)$ and $(a,\ 3)$;

   $Slope = \dfrac{3}{8}$

   $a =$ **6**

2) $(4, x)$ and $(2,\ 8)$;

   $Slope = -\dfrac{9}{2}$

   $x =$ **−1**

3) $(7, 6)$ and $(3, r)$;

   $Slope = \dfrac{1}{4}$

   $r =$ **5**

4) $(0, 6)$ and $(4,\ m)$;

   $Slope = \dfrac{1}{2}$

   $m =$ **8**

5) $(s, 2)$ and $(11, 6)$;

   $Slope = \dfrac{4}{9}$

   $s =$ **2**

6) $(1, -6)$ and $(y, 7)$;

   $Slope = -\dfrac{13}{2}$

   $y =$ **−1**

7) $(z, 2)$ and $(-2, 9)$;

   $Slope = -1$

   $z =$ **5**

8) $(5, 3)$ and $(1, p)$;

   $Slope = \dfrac{3}{4}$

   $p =$ **0**

9) $(4, c)$ and $(9, 7)$;

   $Slope = \dfrac{4}{5}$

   $c =$ **3**

10) $(0, 2)$ and $(d, 5)$;

    $Slope = -\dfrac{3}{2}$

    $d =$ **−2**

11) $(z, -2)$ and $(-2, 10)$;

    $Slope = 6$

    $z =$ **−4**

12) $(1, -3)$ and $(4, w)$;

    $Slope = \dfrac{10}{3}$

    $w =$ **7**

13) $(-2, t)$ and $(3, 4)$;

    $Slope = -1$

    $t =$ **9**

14) $(q, 0)$ and $(4, 8)$;

    $Slope = 4$

    $q =$ **2**

15) $(2, 3)$ and $(s, 0)$;

    $Slope = -\dfrac{3}{4}$

    $s =$ **6**