

Ch 6 Test part 1

1) -2 2) -2 3) negative 4) $-\frac{10}{9}$

5) $-\frac{14}{5}$ 6) $\frac{3}{2}$ 7) $\frac{5}{28}$ 8) $\frac{3}{5}$

9) $y = -\frac{5}{3}x - 2$

10) a) $y = -\frac{3}{5}x - 1$ c) $y = \frac{3}{5}x - 1$

b) $y = -\frac{3}{5}x + 1$ d) $y = \frac{3}{5}x + 1$

11) $y = \frac{1}{2}x + 6$

12) missing important info but for each value the equation would be

a) $y = -\frac{7}{2}x - 25$ c) $y = -\frac{7}{2}x + 38$

b) $y = -\frac{7}{2}x + 4$ d) $y = -\frac{7}{2}x - 4$

13) $y + 7 = 7(x - 5)$

14) a) parallel b) perpendicular
c) parallel d) neither

15) a) $y = -\frac{1}{4}x + 1$

c) $y = \frac{1}{4}x - 1$

16) can't solve

b) $y = -\frac{1}{4}x - 1$

d) $y = \frac{1}{4}x + 1$

but it should be **A**

17) $y + 4 = -7(x - 6)$

18) can't solve

19) x-int = -6
y-int = 2

20) 4

Short Answer

$$1.) \quad y(x) = mx + 2 \quad y(-3) = 4$$
$$4 = m(-3) + 2$$
$$\underline{\underline{-\frac{2}{3} = m}}$$

$$2.) \text{ a) } y = \frac{3}{7}x + b \quad y(2) = 3$$
$$3 = \frac{3}{7}(2) + b$$
$$\underline{\underline{y = \frac{3}{7}x + \frac{24}{7}}}$$

$$\text{b) } y = -\frac{7}{3}x + b \quad y = 3 \quad x = -1$$

$$3 = \frac{7}{3} + b \Rightarrow b = \frac{2}{3} \Rightarrow \underline{\underline{y = -\frac{7}{3}x + \frac{2}{3}}}$$

$$3.) \quad x\text{-int} = -8$$
$$y\text{-int} = -5$$

4.) ~~too~~ missing information