Linear Functions - Rearranging and Finding the Rule Name_____

Math 4CST

Write the slope-intercept form of the equation of each line.

1) $-1 = x - 3y$

2) $-17 - 7y + x = 0$

3) $-2x - 10 = -y$

4) $-y + 8x = -29$

5) $-5 - 2x = y$

6) $8x - 5y = 5$

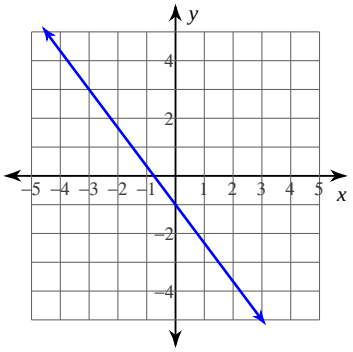
7) $6x - y = 1$

8) $x - y = 7$

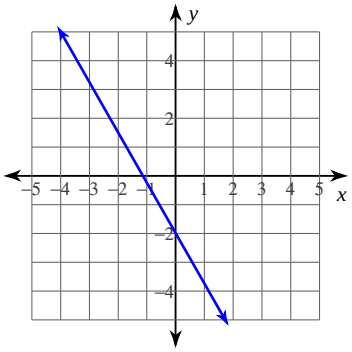
9) $y = -1$

10) $x + 4y = 4$

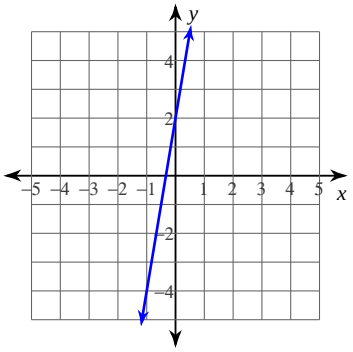
11)



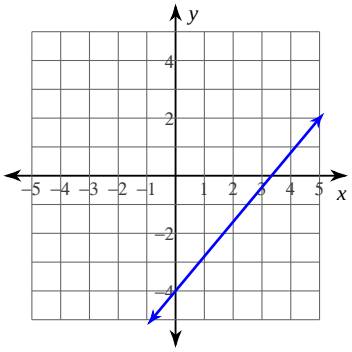
12)



13)



14)



Write the slope-intercept form of the equation of the line through the given point with the given slope.

15) through: $(-5, 4)$, slope = $-\frac{8}{5}$

16) through: $(3, 5)$, slope = 2

17) through: $(-1, 1)$, slope = -2

18) through: $(-5, -1)$, slope = $-\frac{1}{5}$

19) through: $(-3, 2)$, slope = $-\frac{4}{3}$

Write the slope-intercept form of the equation of the line through the given points.

20) through: $(-4, -4)$ and $(-5, -1)$

21) through: $(3, -2)$ and $(2, -4)$

22) through: $(-4, 5)$ and $(0, 1)$

23) through: $(-3, -2)$ and $(-4, -5)$

24) through: $(3, 3)$ and $(5, -5)$

25) through: $(-2, 0)$ and $(4, -3)$

26) through: $(0, -2)$ and $(1, 5)$

27) through: $(0, 4)$ and $(-1, -3)$

28) through: $(3, 5)$ and $(5, -5)$

29) through: $(4, 2)$ and $(0, -2)$

30) through: $(4, 1)$ and $(5, 4)$

Answers to Math 4CST (ID: 1)

1) $y = \frac{1}{3}x + \frac{1}{3}$

2) $y = \frac{1}{7}x - \frac{17}{7}$

3) $y = 2x + 10$

4) $y = 8x + 29$

5) $y = -2x - 5$

6) $y = \frac{8}{5}x - 1$

7) $y = 6x - 1$

8) $y = x - 7$

9) $y = -1$

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

11) $y = -\frac{4}{3}x - 1$

12) $y = -\frac{7}{4}x - 2$

13) $y = 6x + 2$

14) $y = \frac{6}{5}x - 4$

15) $y = -\frac{8}{5}x - 4$

16) $y = 2x - 1$

17) $y = -2x - 1$

18) $y = -\frac{1}{5}x - 2$

19) $y = -\frac{4}{3}x - 2$

20) $y = -3x - 16$

21) $y = 2x - 8$

22) $y = -x + 1$

23) $y = 3x + 7$

24) $y = -4x + 15$

25) $y = -\frac{1}{2}x - 1$

26) $y = 7x - 2$

27) $y = 7x + 4$

28) $y = -5x + 20$

29) $y = x - 2$

30) $y = 3x - 11$