Algebra Name_____

Standard Form of a Linear Equation

Convert each equation from slope-intercept form to standard form.

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

2) $x = -5$

3) $y = 2x - 3$

4) $y = -2x + 1$

5) $y = -6$

6) $y = -x - 3$

7) $y = -3x + 2$

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

Write each equation in STANDARD FORM. (Hint: Write in slope-intercept form, then convert to standard form.)

9) Slope = $\frac{3}{5}$, y-intercept = 5

10) Slope = 1, y-intercept = −3

11) Slope = $-\frac{3}{5}$, y-intercept = −3

12) Slope = $\frac{5}{4}$, y-intercept = 2

13) Slope = $-\frac{3}{5}$, y-intercept = 1

14) Slope = −8, y-intercept = 5

15) Slope = $\frac{7}{2}$, y-intercept = 3

16) Slope = −5, y-intercept = 5

Convert each equation to STANDARD FORM.

17) $y - 5 = -3(x + 2)$

18) $y + 1 = \frac{4}{5}(x - 5)$

19) $0 = x - 4$

20) $y - 3 = -\frac{1}{2}(x + 4)$

21) $y - 4 = \frac{1}{3}(x + 3)$

22) $y + 5 = 3(x + 3)$

23) $y - 3 = -2(x + 2)$

24) $y - 1 = \frac{5}{3}(x - 3)$

Write each equation in STANDARD FORM. (Hint: Write in point-slope form first, then convert to STANDARD FORM.)

25) through: $(5, 0)$, slope = -1

26) through: $(2, -5)$, slope = -4

27) through: $(-3, -4)$, slope = $-\frac{1}{3}$

28) through: $(3, 0)$, slope = $-\frac{2}{3}$

29) through: $(-5, 3)$, slope = $-\frac{1}{5}$

30) through: $(-1, -3)$, slope = 4

31) through: $(1, 4)$, slope = 1

32) through: $(-5, -5)$, slope = $\frac{9}{8}$

33) through: $(0, -4)$ and $(2, 5)$

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

35) through: $(0, 1)$ and $(-2, -4)$

36) through: $(-1, -3)$ and $(0, 2)$

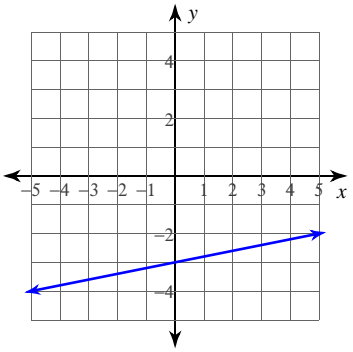
37) through: $(-3, -2)$ and $(2, 3)$

38) through: $(-4, 3)$ and $(-1, -1)$

39) through: $(3, -2)$ and $(0, 3)$

40) through: $(4, 2)$ and $(4, -2)$

41)



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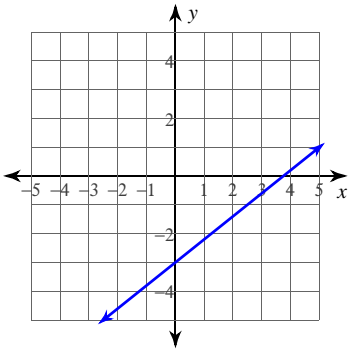

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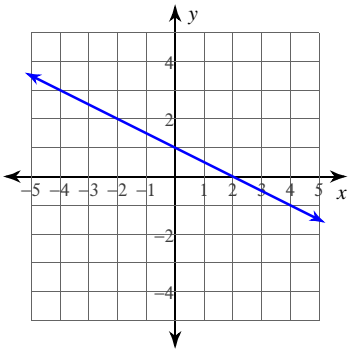

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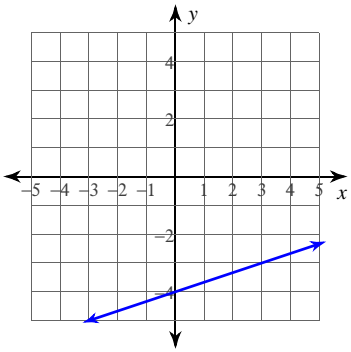

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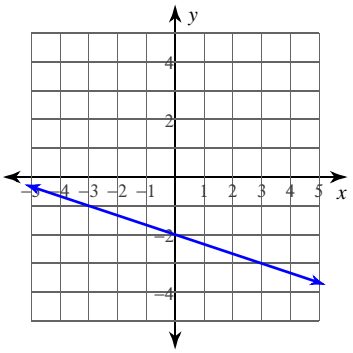

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