Algebra 1 Review Rewriting Equations in Standard Form Name_____

Standard Form: $Ax + By = C$

-integer coefficients

- A is positive

Ex: $y = \frac{1}{3}x - 4$

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

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

$$x - 3y = 12$$

Write the equation in standard form.

1. $y = -3x + 9$
2. $y = 6x - 5$
3. $4x - 9y - 7 = 4$
4. $2x - 9 = y + 3$
5. $5y = 2x$
6. $4y = -7x - 16$
7. $y + 6 = 3(x - 1)$
8. $y + 4 = -4(x + 2)$
9. $y = -\frac{1}{2}x + 4$
10. $y = \frac{2}{5}x - 1$
11. $y = \frac{3}{7}x + 2$
12. $y = -\frac{1}{2}x + \frac{7}{2}$
13. $y = \frac{3}{4}x + \frac{5}{8}$
14. $y = \frac{5}{6}x - \frac{1}{4}$

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Ex: $(0, 7)$ *and* $(5, 1)$

$m = \frac{7-1}{0-5} = \frac{6}{-5} = -\frac{6}{5}$

$y - 7 = -\frac{6}{5}(x - 0)$

$y - 7 = -\frac{6}{5}x$

$y = -\frac{6}{5}x + 7$

$y = -\frac{6}{5}x + 7$

$\frac{6}{5}x + y = 7$

$5\left(\frac{6}{5}x + y\right) = 5(7)$

$6x + 5y = 35$

Write the equation in slope-intercept form then change it to standard form with integer coefficients.

15. $(6, 8), m = 2$

16. $(4, 1), m = -\frac{1}{2}$

17. $(1, 5), m = \frac{4}{5}$

18. $(6, -4)$ *and* $(7, 1)$

19. $(10, -3)$ *and* $(5, -2)$

20. $(4, 9)$ *and* $(-2, -6)$