

## Unit 1 Review

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**Solve each equation.**

1)  $1 - 2x - 7 = 2$

2)  $0 = -2x + 6x$

3)  $7 + 2p = -3p + 7$

4)  $10 + 2a = 5a - 5a$

5)  $-6 + 5(n - 8) = -81$

6)  $88 = -8(1 + 3x)$

7)  $x - 3(x - 8) = 2(x + 4)$

8)  $6 - 2(4x + 3) = 6 + 2(-4x - 2)$

9)  $\frac{389}{48} - a = \frac{7}{2}\left(a + \frac{4}{3}\right) + \frac{7}{4}$

10)  $-\frac{583}{120} + 1\frac{1}{6}x = -\left(\frac{7}{8}x + 2\right)$

11)  $2.7(3.1 - 2.34b) = 3.613b - 32.3471$

12)  $0.44v - 40.8746 = 4.7(v - 7.6)$

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

13)  $9x - 8y = -32$

14)  $5x - 2y = -12$

15)  $y + 3 = x - 2$

16)  $y - 4 = -4(x + 2)$

17)  $15y = -60 - 12x$

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

**Solve each equation.**

19)  $-28 - 7x = -7(x + 4)$

20)  $-2(1 - x) + 2x = -2 + 4x$

21)  $4r + 3r = -2(r + 7) - 3(4 - 3r)$

22)  $7(6n - 6) = 7(6n + 6)$

## Unit 1 Review

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**Solve each equation.**

1)  $1 - 2x - 7 = 2$

$\{-4\}$

2)  $0 = -2x + 6x$

$\{0\}$

3)  $7 + 2p = -3p + 7$

$\{0\}$

4)  $10 + 2a = 5a - 5a$

$\{-5\}$

5)  $-6 + 5(n - 8) = -81$

$\{-7\}$

6)  $88 = -8(1 + 3x)$

$\{-4\}$

7)  $x - 3(x - 8) = 2(x + 4)$

$\{4\}$

8)  $6 - 2(4x + 3) = 6 + 2(-4x - 2)$

**No solution.**

9)  $\frac{389}{48} - a = \frac{7}{2}\left(a + \frac{4}{3}\right) + \frac{7}{4}$

$\left\{\frac{3}{8}\right\}$

10)  $-\frac{583}{120} + 1\frac{1}{6}x = -\left(\frac{7}{8}x + 2\right)$

$\left\{\frac{7}{5}\right\}$

11)  $2.7(3.1 - 2.34b) = 3.613b - 32.3471$

$\{4.1\}$

12)  $0.44v - 40.8746 = 4.7(v - 7.6)$

$\{-1.21\}$

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

13)  $9x - 8y = -32$

$y = \frac{9}{8}x + 4$

14)  $5x - 2y = -12$

$y = \frac{5}{2}x + 6$

15)  $y + 3 = x - 2$

$y = x - 5$

16)  $y - 4 = -4(x + 2)$

$y = -4x - 4$

17)  $15y = -60 - 12x$

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

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

$y = -\frac{1}{2}x - 3$

**Solve each equation.**

19)  $-28 - 7x = -7(x + 4)$

$\{ \text{All real numbers.} \}$

20)  $-2(1 - x) + 2x = -2 + 4x$

$\{ \text{All real numbers.} \}$

21)  $4r + 3r = -2(r + 7) - 3(4 - 3r)$

**No solution.**

22)  $7(6n - 6) = 7(6n + 6)$

**No solution.**