

EOC Review #1

Date _____ Period _____

Solve each equation.

1) $5k + k = 6$

2) $3 = 4 + p - 1$

3) $-5 = 2n - 5 - 2n$

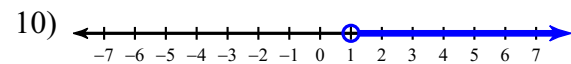
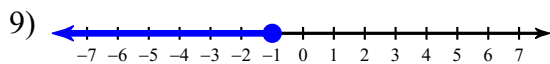
4) $5 - 4(-2x - 3) = 57$

5) $56 = 2(-5n + 4) - 2$

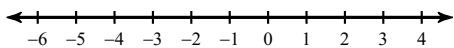
6) $-52 = -4(1 - 3n)$

7) $5(-4v + 5) = -20 - 5v$

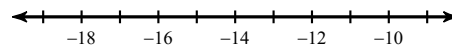
8) $-7 + 2r = 2(r - 4)$

Write an inequality for each graph.**Solve each inequality and graph its solution.**

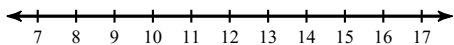
11) $x - 4 < -8$



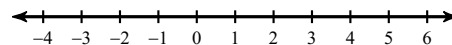
12) $x + 15 \geq 3$



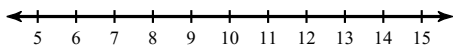
13) $31 \geq 18 + a$



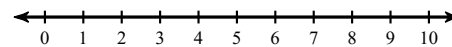
14) $-5b + 3 + 6 < -1$



15) $4 + 6m - 6m \leq 8$



16) $78 > 6x - 3(-5 - 5x)$

**Solve each equation.**

17) $|10r| = 50$

18) $2 + |x + 5| = 4$

19) $\left|\frac{r}{4}\right| + 1 = 3$

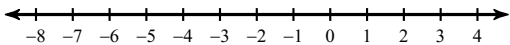
20) $-5|v + 4| + 5 = 10$

21) $6|3 + k| - 1 = 11$

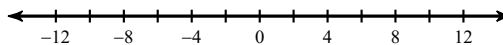
22) $-6 + 2|4x| = 18$

Solve each inequality and graph its solution.

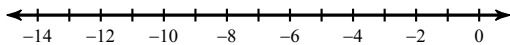
23) $|b| \leq 2$



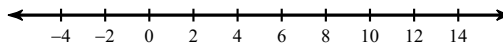
24) $|6p| > 48$



25) $|p + 8| + 2 \geq 5$



26) $|k - 4| + 5 \geq 11$



Give the domain and range of each relation. Tell whether the relation is a function.

27) $(-1, 2), (0, 3), (0, 4), (1, 4)$

28) $(-4, 0), (-3, 1), (-2, 2), (-1, 3)$

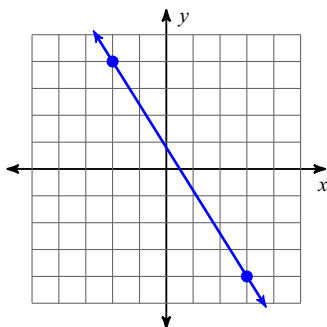
Evaluate each function for the given input values.

29) For $f(x) = 3x + 1$, find $f(x)$ when $x = 2$.

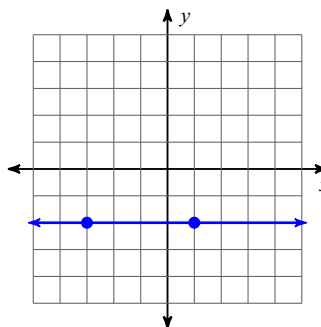
30) For $f(x) = x^2 + 3x - 7$, find $f(x)$ when $x = 4$.

Find the slope of each line.

31)



32)



Find the slope of the line through each pair of points.

33) $(-14, -18), (-16, 6)$

34) $(-14, 12), (0, -3)$

35) $(11, 16), (9, 2)$

36) $(1, 18), (1, -6)$

Find the slope of a line parallel to each given line.

37) $x + 3y = -6$

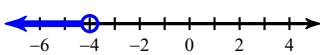
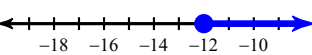
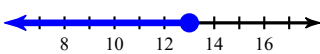
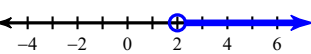
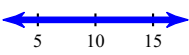
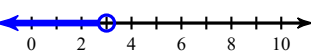
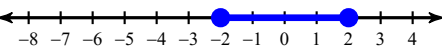
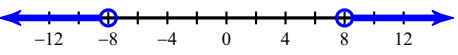
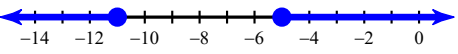
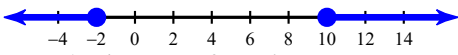
38) $x + y = 3$

Find the slope of a line perpendicular to each given line.

39) $2x + y = 5$

40) $2x - 3y = 6$

Answers to EOC Review #1

- | | | |
|--|--|-----------------------------------|
| 1) $\{1\}$ | 2) $\{0\}$ | 3) $\{\text{All real numbers.}\}$ |
| 4) $\{5\}$ | 5) $\{-5\}$ | 6) $\{-4\}$ |
| 8) No solution. | 9) $a \leq -1$ | 7) $\{3\}$ |
| 11) $x < -4$:  | 12) $x \geq -12$:  | |
| 13) $a \leq 13$:  | 14) $b > 2$:  | |
| 15) $\{\text{All real numbers.}\}$:  | 16) $x < 3$:  | |
| 17) $\{5, -5\}$ | 18) $\{-3, -7\}$ | 19) $\{8, -8\}$ |
| 21) $\{-1, -5\}$ | 22) $\{3, -3\}$ | 20) No solution. |
| 23) $-2 \leq b \leq 2$:  | | |
| 24) $p > 8$ or $p < -8$:  | | |
| 25) $p \geq -5$ or $p \leq -11$:  | | |
| 26) $k \geq 10$ or $k \leq -2$:  | | |
| 27) D: $\{-1, 0, 1\}$ R: $\{2, 3, 4\}$ / Not a function | | |
| 28) D: $\{-4, -3, -2, -1\}$ R: $\{0, 1, 2, 3\}$ / Yes a function | | |
| 29) 7 | 30) 21 | 31) $-\frac{8}{5}$ |
| 33) -12 | 34) $-\frac{15}{14}$ | 32) 0 |
| 37) $-\frac{1}{3}$ | 38) -1 | 35) 7 |
| | | 36) Undefined |
| | | 39) $\frac{1}{2}$ |
| | | 40) $-\frac{3}{2}$ |