

Algebra 1: Linear Equations Review

Practice Test

Name: _____

Date: _____

Solve each equation. Choose the best answer.

Section 1 - Multiple Choice

- Solve for x : $3x + 7 = 22$
 - $x = 3$
 - $x = 5$
 - $x = 7$
 - $x = 15$
- What is the slope of the line $y = -2x + 4$?
 - 2
 - 2
 - 4
 - 4
- Which point lies on the line $y = 3x - 1$?
 - (1, 2)
 - (2, 4)
 - (0, 1)
 - (3, 7)
- Solve for x : $2(x - 3) = 10$
 - $x = 2$
 - $x = 5$
 - $x = 8$
 - $x = 13$
- What is the y -intercept of the line $4x + 2y = 8$?
 - 2
 - 4
 - 4
 - 8
- Two lines are parallel if they have the same:
 - x -intercept
 - y -intercept
 - slope
 - origin

Answer Key

Section 1 - Multiple Choice

1. **B**

Subtract 7 from both sides: $3x = 15$. Divide by 3: $x = 5$.

2. **A**

In $y = mx + b$, the coefficient of x is the slope. Here $m = -2$.

3. **A**

At $x = 1$: $y = 3(1) - 1 = 2$. So $(1, 2)$ is on the line.

4. **C**

Divide by 2: $x - 3 = 5$. Add 3: $x = 8$.

5. **B**

Set $x = 0$: $2y = 8$, so $y = 4$. The y -intercept is 4.

6. **C**

Parallel lines never intersect, which means they share the same slope.