

A2.A.1: Absolute Value Equations 1: Solve absolute value equations and inequalities involving linear expressions in one variable

- 1 What is the solution set of the equation $|2x - 1| = 9$?
- | | |
|----------------|----------------|
| 1) $\{ \}$ | 3) $\{-5, 4\}$ |
| 2) $\{5, -4\}$ | 4) $\{5\}$ |
- 2 What is the solution set of the equation $|2x + 1| = 9$?
- | | |
|----------------|----------------|
| 1) $\{-5\}$ | 3) $\{4, -5\}$ |
| 2) $\{-4, 5\}$ | 4) $\{4\}$ |
- 3 What is the solution set for the equation $|3x + 2| = 5$?
- | | |
|---------------------------------|-------------------------------------|
| 1) $\{1\}$ | 3) $\left\{1, -\frac{7}{3}\right\}$ |
| 2) $\left\{\frac{7}{3}\right\}$ | 4) $\left\{-1, \frac{7}{3}\right\}$ |
- 4 What is the solution set of the equation $|4x - 3| = 17$?
- | | |
|-------------------------------------|-------------------------------------|
| 1) $\{5\}$ | 3) $\left\{-5, \frac{7}{2}\right\}$ |
| 2) $\left\{5, -\frac{7}{2}\right\}$ | 4) $\left\{-3, \frac{1}{2}\right\}$ |
- 5 What is the solution set for the equation $|3 - 2x| = 5$?
- | | |
|----------------|-------------|
| 1) $\{-1, 4\}$ | 3) $\{-1\}$ |
| 2) $\{1, -4\}$ | 4) $\{4\}$ |