

Solving Basic Equations

Question 1. Solve the following equations.

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|-----------------|------------------------|
| a) $2 + x = 5$ | g) $-8x = -5$ |
| b) $x - 4 = 10$ | h) $\frac{x}{4} = 6$ |
| c) $x + 3 = 0$ | i) $\frac{5x}{3} = 10$ |
| d) $2x = -8$ | j) $2x = 1$ |
| e) $3x = 5$ | k) $\frac{3x}{7} = 3$ |
| f) $-x = -2$ | |

Question 2. Solve the following equations.

- $2x + x + 1 = 2$
- $2x + 1 = x$
- $2x + 3 = 4x + 4$
- $20 - x(4 + 1) = 5x$
- $8x - 2(5x + 6) = 20$
- $5x + 4(2x - 7) = -15$

Question 3. Solve for y in the following equations.

- $y + x = 0$
- $x + y = 2 + x$
- $2y + 3x = 5 - x$
- $x - 1 = y + 4$
- $y + x + y + 1 = 2x - 3y + 8$
- $2(x - y) = 3(x + y + 1)$

Question 4. Solve the following equations.

- $|x| = 3$
- $|-x| = 2$
- $|x| = 0$
- $|x| = -4$
- $|x - 2| = 1$
- $|x - 10| = 3$
- $|x + 5| = 5$

Question 5. Solve the following equations.

- $|2x| = 4$
- $|3x| = 8$
- $|2x - 1| = -1$
- $|3x - 6| = 0$
- $|2x - 1| = 1$
- $|5x - 2| + 4 = 6$
- $2|3x - 1| = 20$
- $4|2x + 3| + 4 = 20$

You can check your answers on pages 268-269.