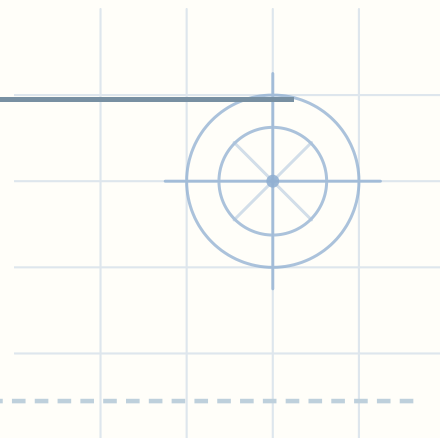


Absolute value equations — Solve $|x + b| = c$

Name: _____

Date: _____

Solve each equation. Each has two answers.



1 $|x| = 4$ $x = \underline{\quad}$ or $x = \underline{\quad}$

2 $|x + 2| = 5$ $x = \underline{\quad}$ or $x = \underline{\quad}$

3 $|x - 1| = 4$ $x = \underline{\quad}$ or $x = \underline{\quad}$

4 $|x - 3| = 6$ $x = \underline{\quad}$ or $x = \underline{\quad}$

5 $|x - 1| = 3$ $x = \underline{\quad}$ or $x = \underline{\quad}$

6 $|x - 2| = 9$ $x = \underline{\quad}$ or $x = \underline{\quad}$

7 $|x + 3| = 2$ $x = \underline{\quad}$ or $x = \underline{\quad}$

8 $|x - 6| = 6$ $x = \underline{\quad}$ or $x = \underline{\quad}$

9 $|x + 4| = 4$ $x = \underline{\quad}$ or $x = \underline{\quad}$

10 $|x - 5| = 6$ $x = \underline{\quad}$ or $x = \underline{\quad}$



Absolute value equations · Solve $|x + b| = c$ — Answer key

1. $|x| = 4 \rightarrow x = -4$ or $x = 4$

2. $|x + 2| = 5 \rightarrow x = -7$ or $x = 3$

3. $|x - 1| = 4 \rightarrow x = -3$ or $x = 5$

4. $|x - 3| = 6 \rightarrow x = -3$ or $x = 9$

5. $|x - 1| = 3 \rightarrow x = -2$ or $x = 4$

6. $|x - 2| = 9 \rightarrow x = -7$ or $x = 11$

7. $|x + 3| = 2 \rightarrow x = -5$ or $x = -1$

8. $|x - 6| = 6 \rightarrow x = 0$ or $x = 12$

9. $|x + 4| = 4 \rightarrow x = -8$ or $x = 0$

10. $|x - 5| = 6 \rightarrow x = -1$ or $x = 11$

