

Solving absolute value equations

- 1) Solve the absolute value function $|3x + 5| = 7$
- 2) Solve the absolute value function $|7x| = 21$
- 3) Solve the absolute value function $|2x + 5| + 6 = 7$
- 4) Solve the absolute value function $|x - 3| + 6 = 6$
- 5) Solve the absolute value function $2|3x + 4| = 7$
- 6) Solve the absolute value function $3|5x - 6| - 4 = 5$
- 7) Solve the absolute value function $|x^2 - 4x - 5| = 7$
- 8) Solve the absolute value function $0.5|0.5x| - 0.5 = 2.5$
- 9) If the absolute value equation $|2x + k| = 3$ has the solution $x = -2$, find the value of "k"
- 10) If the absolute value equation $|x - 3| - k = 0$ has the solution $x = -5$, find the value of "k"

Answers:

1) $x = -4, 2/3$

2) $x = -3, 3$

3) $x = -2, -3$

4) $x = 3, 3$

5) $x = -1/6, 5/2$

6) $x = 9/5, 3/5$

7) $x = -2, 7, 2 \pm \sqrt{2}$

8) $x = -12, 12$

9) $k = 1, 7$

10) $k = 8$

Do you need the step by step solution for the above problems, please click on the following link.

<http://www.onlinemath4all.com/solving-absolute-value-equations-worksheet-pdf.html>

www.onlinemath4all.com