

Solve the equation if possible. Check your answers.

1.  $-18 = |x + 14|$

2.  $-13 = |x - 10|$

3.  $-8 = |x - 13|$

4.  $-25 = |x + 18|$

5.  $-20 = |x + 5|$

6.  $-16 = |x - 9|$

7.  $-23 = |x - 3|$

8.  $-5 = |x + 15|$

9.  $-2 = |x - 6|$

10.  $-27 = |x + 4|$

11.  $3.6 = |4.2 + 2x|$

12.  $3.2 = |-4 + 6x|$

13.  $3.4 = |2.8 + 5x|$

14.  $4.8 = |-1 + 8x|$

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15.  $4.4 = |-2.4 + 3x|$

16.  $5.2 = |2.6 + 7x|$

17.  $4 = |-4.8 + 4x|$

18.  $6 = |-5.4 + 9x|$

19.  $4.6 = |4.6 + 2x|$

20.  $2.2 = |3.8 + 6x|$

21.  $|3x - 5| = 6$       [A]  $\frac{11}{3}, -\frac{1}{3}$       [B]  $-\frac{16}{3}, 2$       [C]  $-\frac{11}{3}, -\frac{1}{3}$       [D] 4, 2

22.  $|5x + 2| = 4$       [A]  $\frac{2}{5}, -\frac{6}{5}$       [B]  $-\frac{2}{5}, -\frac{6}{5}$       [C] 0,  $\frac{4}{5}$       [D]  $\frac{8}{5}, \frac{4}{5}$

23.  $|2x + 4| = 5$       [A] 5,  $\frac{5}{2}$       [B]  $-\frac{1}{2}, -\frac{9}{2}$       [C]  $\frac{3}{2}, \frac{5}{2}$       [D]  $\frac{1}{2}, -\frac{9}{2}$

24.  $|4x - 6| = 2$       [A] 1,  $\frac{1}{2}$       [B] -2, 1      [C] 2, 1      [D]  $-\frac{7}{2}, \frac{1}{2}$

25.  $|3x - 3| = 5$       [A]  $\frac{10}{3}, \frac{5}{3}$       [B]  $\frac{8}{3}, -\frac{2}{3}$       [C]  $-\frac{8}{3}, -\frac{2}{3}$       [D]  $-\frac{11}{3}, \frac{5}{3}$

26.  $|5x - 5| = 3$       [A]  $\frac{6}{5}, \frac{3}{5}$       [B]  $\frac{8}{5}, \frac{2}{5}$       [C]  $-\frac{8}{5}, \frac{2}{5}$       [D]  $-\frac{13}{5}, \frac{3}{5}$

27.  $|4x + 1| = 6$       [A]  $-\frac{5}{4}, -\frac{7}{4}$       [B]  $\frac{5}{4}, -\frac{7}{4}$       [C] -1,  $\frac{3}{2}$       [D] 3,  $\frac{3}{2}$

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28.  $|5x + 3| = 4$       [A]  $\frac{2}{5}, \frac{4}{5}$       [B]  $-\frac{1}{5}, -\frac{7}{5}$       [C]  $\frac{8}{5}, \frac{4}{5}$       [D]  $\frac{1}{5}, -\frac{7}{5}$
29.  $|2x - 5| = 2$       [A] 2, 1      [B]  $-\frac{7}{2}, \frac{3}{2}$       [C] -6, 1      [D]  $\frac{7}{2}, \frac{3}{2}$
30.  $|6x - 2| = 5$       [A]  $-\frac{3}{2}, \frac{5}{6}$       [B]  $-\frac{7}{6}, -\frac{1}{2}$       [C]  $\frac{5}{3}, \frac{5}{6}$       [D]  $\frac{7}{6}, -\frac{1}{2}$
31.  $|x + 6| = 9$       [A] 3, -15      [B] -15      [C] 15, -3      [D] -3
32.  $|x + 3| = 4$       [A] 1, -7      [B] 7, -1      [C] -1      [D] -7
33.  $|x + 7| = 5$       [A] -12      [B] -2, -12      [C] 12, 2      [D] 2
34.  $|x + 8| = 6$       [A] 2      [B] -14      [C] 14, 2      [D] -2, -14
35.  $|x + 9| = 8$       [A] -1, -17      [B] 17, 1      [C] 1      [D] -17
36.  $|x + 2| = 7$       [A] -5      [B] 5, -9      [C] 9, -5      [D] -9
37.  $|x - 4| = 3$       [A] 1      [B] -7      [C] -1, -7      [D] 7, 1
38.  $|x + 5| = 9$       [A] 4, -14      [B] -14      [C] -4      [D] 14, -4
39.  $|x + 6| = 4$       [A] -10      [B] 10, 2      [C] -2, -10      [D] 2
40.  $|x + 3| = 5$       [A] 2, -8      [B] -8      [C] 8, -2      [D] -2