

Part I – Complete # 1 – 13 odd, 16, 17, 23, 24, 28, 29, 34, 36**Solve each equation. Check your answers.**

1. $|3x| = 18$ $x = \{-6, 6\}$

3. $|x - 3| = 9$ $x = \{-6, 12\}$

5. $|3x + 4| = -3$ No Solution

7. $|x + 4| + 3 = 17$ $x = \{-18, 10\}$

2. $|-4x| = 32$

4. $2|3x - 2| = 14$

6. $|2x - 3| = -1$

8. $|4 - z| - 10 = 1$

Solve each equation. Check for extraneous solutions.

9. $|x - 1| = 5x + 10$ $x = \{-\frac{3}{2}\}$

11. $|3x + 5| = 5x + 2$ $x = \{\frac{3}{2}\}$

13. $3|4w - 1| - 5 = 10$ $w = \{-1, \frac{3}{2}\}$

10. $|2z - 3| = 4z - 1$

12. $|2y - 4| = 12$

14. $|2x + 5| = 3x + 4$

16. $-|4 - 8b| = 12$ No Solution

17. $4|3x + 4| = 4x + 8$ $x = \{\frac{3}{2}, -1\}$

18. $|3x - 1| + 10 = 25$

19. $\frac{1}{2}|3c + 5| = 6c + 4$

20. $5|6 - 5x| = 15x - 35$

21. $7|8 - 3h| = 21h - 49$

22. $6|2x + 5| = 6x + 24$

23. $\frac{1}{4}|4x + 7| = 8x + 16$

24. $\frac{2}{3}|3x - 6| = 4(x - 2)$

$x = \{-\frac{71}{36}\}$

$x = \{2\}$

Apply Mathematics (1)(A) Write an absolute value equation to represent each situation.

27. A fence extends from the side of a house. A dog is tied to a fence post ten feet from the side of the house. The dog's leash is six feet long. Let d be the greatest and least distance from the house that the dog can reach along the fence.

28. A factory produces widgets whose length must be within 1.5 mm of an ideal length of 47 mm. A factory supervisor wants to mark rulers with the least and greatest acceptable length for each widget for workers to use in quality control inspections. Let ℓ be the length of the markings along the ruler.

$| \ell - 47 | = 1.5$

29. You and your friends Jose and Sarah all live on the same street.

You know that Jose lives five blocks away from you. Jose says that Sarah lives two blocks from him, but he didn't say whether she lives closer to you than he does or further. Let b be the number of blocks Sarah might live from you.

$| b - 5 | = 2$



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