

Solve the Absolute Value Equations

Round your answers to the nearest hundredth if needed.

1) $\left|\frac{z}{7} + 23\right| = 18$

6) $\left|\frac{1}{y} - 5\right| = 29$

2) $\left|\frac{x}{3} + 13\right| = 26$

7) $\left|\frac{-a}{4} - 27\right| = 13$

3) $\left|\frac{7}{n} - 24\right| = 9$

8) $\left|\frac{-7}{d} - 6\right| = 19$

4) $\left|\frac{5}{-f} - 12\right| = 25$

9) $\left|\frac{k}{3} - 29\right| = 9$

5) $\left|\frac{1}{h} + 12\right| = 18$

10) $\left|\frac{-s}{7} - 9\right| = 12$

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Round your answers to the nearest hundredth if needed.

$$1) \left| \frac{z}{7} + 23 \right| = 18$$

$$z = -287 \text{ or } -35$$

$$6) \left| \frac{1}{y} - 5 \right| = 29$$

$$y = -0.04 \text{ or } 0.03$$

$$2) \left| \frac{x}{3} + 13 \right| = 26$$

$$x = -117 \text{ or } 39$$

$$7) \left| \frac{-a}{4} - 27 \right| = 13$$

$$a = -160 \text{ or } -56$$

$$3) \left| \frac{7}{n} - 24 \right| = 9$$

$$n = 0.21 \text{ or } 0.47$$

$$8) \left| \frac{-7}{d} - 6 \right| = 19$$

$$d = -0.28 \text{ or } 0.54$$

$$4) \left| \frac{5}{-f} - 12 \right| = 25$$

$$f = -0.14 \text{ or } 0.38$$

$$9) \left| \frac{k}{3} - 29 \right| = 9$$

$$k = 60 \text{ or } 114$$

$$5) \left| \frac{1}{h} + 12 \right| = 18$$

$$h = -0.03 \text{ or } 0.17$$

$$10) \left| \frac{-s}{7} - 9 \right| = 12$$

$$s = -147 \text{ or } 21$$

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