

Two of these equations have no solution!

1.3 Corrective Assignment - Absolute Value Equations

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Solve each equation. Write non-interger answers in fractional form.

$$1) \left| \frac{v}{4} \right| = 5$$

$$2) \left| \frac{b}{2} \right| = 1$$

$$3) \left| \frac{13}{6}x \right| = \frac{13}{3}$$

$$4) \left| \frac{3}{4}x \right| = \frac{1}{2}$$

$$5) \left| n + \frac{8}{5} \right| = \frac{44}{15}$$

$$6) |2v| = \frac{10}{3}$$

$$7) \left| \frac{x}{6} \right| - 4 = -3$$

$$8) -5 + \left| \frac{n}{6} \right| = -7$$

$$9) 4|-4p - 1| + 6 = 10$$

$$10) -3|1 - x| - 2 = -14$$

$$11) 10|1 - 7x| - 5 = 75$$

$$12) 6 + 7|3p - 3| = 69$$

$$13) |9b - 6| - 4 = -73$$

$$14) |-a - 8| + 3 = 13$$

Answers to 1.3 Corrective Assignment - Absolute Value Equations

1) $\{20, -20\}$

2) $\{2, -2\}$

3) $\{2, -2\}$

4) $\left\{\frac{2}{3}, -\frac{2}{3}\right\}$

5) $\left\{\frac{4}{3}, -\frac{68}{15}\right\}$

6) $\left\{\frac{5}{3}, -\frac{5}{3}\right\}$

7) $\{6, -6\}$

8) No solution.

9) $\left\{-\frac{1}{2}, 0\right\}$

10) $\{-3, 5\}$

11) $\left\{-1, \frac{9}{7}\right\}$

12) $\{4, -2\}$

13) No solution.

14) $\{-18, 2\}$