

HAP 1.6 Absolute Value Equations and Inequalities

1. Solve each equation.

(a) $|5x - 10| = 15$

(b) $\left| \frac{2}{3}x + 6 \right| = 12$

(c) $|4 - 3x| - 4 = 1$

(d) $|x^2 + x - 1| = 1$

2. Solve each absolute value inequality.

(a) $|3x| \leq 21$

(b) $|4x - 3| \geq 9$

(c) $|2 - 6x| - 5 < 1$

(d) $-|3x - 3| \geq -8$

Exit ticket: $0 < \frac{5}{x} < \frac{8}{9}$