

# Solving Modulus Equations

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## Question 1

Solve  $|4x - 3| = 2$

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## Question 2

Solve  $|x - 5| = 4x + 1$ .

$$\left[ \quad \right] x = \frac{4}{5} \text{ or } x = -2 \quad \left[ \quad \right] x = -2 \quad \left[ \quad \right] x = -\frac{4}{5} \text{ or } 2$$

$$\left[ \quad \right] x = \frac{4}{5} \quad \left[ \quad \right] x = -\frac{4}{5}$$

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## Question 3

Solve the equation  $|2x - 1| = |x + 3|$

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## Question 4

Solve  $|1 - 2x| = x$

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## Question 5

Solve  $|3x - 4| = 2x + 1$ .

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## Question 6

Solve  $|2x - 7| = |x + 3|$ .

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## Question 7

Find the exact solutions of the equation  $|2x + \sqrt{3}| = 6$ .

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## Question 8

Find the exact solutions of the equation  $|\sqrt{2} - 5x| = |x + 4|$ .

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