

Restrictions on the variable(s)

$$3x - 1 = 0$$

$$\frac{+1}{-1} \quad \frac{+1}{-1}$$
$$\frac{3x}{3} = \frac{1}{3}$$

$$x = \frac{1}{3}$$

$$x = 0$$

$$\text{LCD} = x(3x-1)$$

$$\frac{3x}{3x-1} + \frac{1}{x(3x-1)} = \frac{1}{x(3x-1)}$$

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$$3x^2 + 3x - 1 = x$$
$$-x \quad -x$$

$$3x^2 + 2x - 1 = 0$$

$$(x + 1)(3x - 1) = 0$$

Zero Factor Prop.

$$x + 1 = 0$$
$$\frac{-1}{-1}$$

$$x = -1$$

OR

$$3x - 1 = 0$$
$$\frac{+1}{+1}$$

$$\frac{3x}{3} = \frac{1}{3}$$
$$x = \frac{1}{3}$$