



1. Solve $(4x - 1)^2 - (4x - 1) - 6 = 0$.

☐ $x = 1$ or $x = -1/4$

☐ $x = 1$ or $x = 1/4$

☐ $x = -1$ or $x = -1/4$

☐ $x = -1$ or $x = 1/4$

2. Solve $5x^4 - 9x^2 - 2 = 0$.

☐ $x = \sqrt{1/5}$ or $x = \sqrt{2}$

☐ $x = -\sqrt{1/5}$ or $x = -\sqrt{2}$

☐ $x = \sqrt{1/5}$ or $x = -\sqrt{1/5}$

☐ $x = \sqrt{2}$ or $x = -\sqrt{2}$

3. Solve $x^{-2} - 5x^{-1} + 6 = 0$.

☐ $x = -1/3$ or $x = -1/2$

☐ $x = 1/3$ or $x = 1/2$

☐ $x = 3$ or $x = 2$

☐ $x = -3$ or $x = -2$

4. Solve $\frac{2}{(1-3x)^2} + \frac{7}{(1-3x)} + 5 = 0$.

☐ $x = 0$ or $x = -1/6$

☐ $x = -1$ or $x = -5/2$

☐ $x = 2/3$ or $x = 7/15$

☐ $x = -2/3$ or $x = -7/15$

5. Solve $(x - 11)^2 \geq 0$.

☐ $(-\infty, \infty)$

☐ $(-\infty, 11) \cup (11, \infty)$

☐ $\{11\}$

☐ $(-\infty, 0) \cup (0, \infty)$

6. Solve $(x + 2)(x - 5) < 0$.

☐ $(2, -5)$

☐ $[-2, 5]$

☐ $(-2, 5)$

☐ $[2, -5]$



7. Solve $x^2 + x \geq 0$.

☐ $(-\infty, -1) \cup [0, \infty)$

☐ $(-\infty, -1] \cup [0, \infty)$

☐ $(-\infty, \infty)$

☐ $[-1, 0]$

8. Solve $\frac{x-3}{x+1} \leq 0$.

☐ $(-1, 3)$

☐ $[-1, 3]$

☐ $[-1, 3)$

☐ $(-1, 3]$

9. Solve $\frac{2}{x+4} < \frac{1}{x}$.

☐ $(0, 4)$

☐ $(-\infty, -4)$

☐ $(-\infty, -4) \cup (0, 4)$

☐ $(-4, 0) \cup (4, \infty)$

6

10. Solve $\frac{1}{x-5} - \frac{3}{x+2} \geq 0$.

☐ $(-\infty, -2) \cup (5, 17/2]$

☐ $(-2, 5) \cup [17/2, \infty)$

☐ $(-2, 5)$

☐ $(-2, 17/2]$

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