Handout 4: Not All Equations Are Created Equal-

1. Solve $\frac{3}{x+1} + \frac{4}{x-1} = 2$.

2. Solve $-x^4 + 4x^2 - 3 = 0$.

3. Solve $x + \frac{1}{2x+1} = 1$.

4. Solve $x - 2\sqrt{x} + 1 = 0$.

5. Solve the inequality $-2x^2 + 3x + 1 < 0$.

6. Solve the inequality $x^2 - 3 \geq x$.

7. Solve the inequality $-x^2 + 4x > 3$.

8. Solve the inequality $2x^2 + 7x - 2 \leq 2$.

9. Solve the inequality $6x < 3x^2 - 9$.

10. Solve the inequality $-x^2 - 2x + 1 > 0$.

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