

# Precalculus 11 – Flashback #4

Solve. State any restrictions and verify solution.

1.  $\sqrt{5x-2} = 4$

2.  $(m+8)(m-5) = (2m-3)(2m+1) - 43$

3.  $\frac{-2}{x+3} - \frac{5}{x} = 2$

4.  $x(x-5) > 0$

5.  $2(x-3)^2 + 9 = 1$

6.  $2\sqrt{3x-7} + 5 = 11$

7.  $5x^2 = -3x + 1$

8.  $4x^2 + 12x \leq 7$

9.  $x = \sqrt{10-3x}$

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

11.  $2y^2 - 7 = 65$

12.  $2a^2 + 15 = 13a$

13.  $4 - 5\sqrt{6x} = -5 - 4\sqrt{6x}$

14.  $\frac{4}{x-3} = \frac{24}{2x-6}$

15.  $3x - 2 \leq 6(x + 7)$