

Solving Rational Equations Notes

Solve each equation. Remember to check for extraneous solutions.

$$1) \frac{2}{3x^2 + 13x + 4} = \frac{1}{3x^2 + 13x + 4} + \frac{1}{3x + 1}$$

$$2) 6 + \frac{5x - 30}{2x} = \frac{5}{2}$$

$$3) \frac{1}{5n} = 1 + \frac{n^2 + 2n + 1}{5n}$$

$$4) \frac{v + 3}{v - 2} + \frac{3}{v} = \frac{1}{v^2 - 2v}$$