

Polynomial Functions – Rational Equations and Inequalities 2

Solve each equation. Check your solution.

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

$$2) \frac{1}{n} = \frac{1}{5n} - \frac{n-1}{5n}$$

$$3) \frac{1}{3x^2} = \frac{x+3}{2x^2} - \frac{1}{6x^2}$$

$$4) \frac{4}{n^2} = \frac{5}{n} - \frac{1}{n^2}$$

$$5) \frac{3n+15}{4n^2} = \frac{1}{n^2} - \frac{n-3}{4n^2}$$

$$6) \frac{1}{2n^2} + \frac{5}{2n} = \frac{n-2}{n^2}$$

$$7) \frac{x-6}{x} = \frac{x+4}{x} + 1$$

$$8) \frac{1}{2n} + \frac{1}{4n^2} = \frac{1}{4n}$$

$$9) \frac{6b+18}{b^2} + \frac{1}{b} = \frac{3}{b}$$

$$10) \frac{1}{2x} - \frac{x-1}{2x^2} = \frac{3}{x}$$