

12-04-12-T7 Rational Expressions

Simplify each expression.

$$1) \frac{5}{2x^2} + \frac{5x}{6x^3}$$

$$2) \frac{3x}{5y} - \frac{4y}{2}$$

$$3) \frac{3}{2b} + \frac{2}{2b^2}$$

$$4) \frac{6m}{4n^3} + \frac{4m}{5n}$$

$$5) \frac{6x}{5xy} - \frac{2y}{4x^2}$$

$$6) \frac{6m - n}{4} + \frac{3m}{2m^3}$$

$$7) \frac{3x}{4xy} + \frac{6x}{4}$$

$$8) \frac{2}{2xy} + \frac{6x}{4y}$$

$$9) \frac{x + 6y}{2} - \frac{4}{2y}$$

$$10) \frac{2}{6} - \frac{3x}{6y}$$

$$11) \frac{4u}{2u^2v} + \frac{5u}{4}$$

$$12) \frac{3x}{6} + \frac{2x}{4xy}$$

Answers to 12-04-12-T7 Rational Expressions

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

$$5) \frac{12x^2 - 5y^2}{10yx^2}$$

$$9) \frac{yx + 6y^2 - 4}{2y}$$

$$2) \frac{-10y^2 + 3x}{5y}$$

$$6) \frac{6m^3 - m^2n + 6}{4m^2}$$

$$10) \frac{2y - 3x}{6y}$$

$$3) \frac{3b + 2}{2b^2}$$

$$7) \frac{3 + 6xy}{4y}$$

$$11) \frac{8 + 5u^2v}{4uv}$$

$$4) \frac{15m + 8mn^2}{10n^3}$$

$$8) \frac{2 + 3x^2}{2xy}$$

$$12) \frac{xy + 1}{2y}$$