

12-04-16-T7 Rational Expressions

Simplify each expression.

$$1) 6u + \frac{3u}{9u^2v^2}$$

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

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

$$4) \frac{4}{4y^2} + \frac{2x}{4y}$$

$$5) \frac{6u}{4u^2v} + \frac{3}{6v^2}$$

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

$$7) \frac{2a}{6} - \frac{a-2b}{3a^3}$$

$$8) \frac{6b}{4} - \frac{4b}{5b}$$

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

$$10) \frac{4x}{5x} - \frac{3y}{2xy^2}$$

$$11) \frac{5m}{4n} - \frac{2m}{6n^2}$$

$$12) \frac{6}{3x} + \frac{6}{5y}$$

Answers to 12-04-16-T7 Rational Expressions

$$1) \frac{18u^2v^2 + 1}{3uv^2}$$

$$2) \frac{2 + 5yx}{5x^2}$$

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

$$4) \frac{2 + xy}{2y^2}$$

$$5) \frac{3v + u}{2uv^2}$$

$$6) \frac{3 + 2yx}{3x}$$

$$7) \frac{a^4 - a + 2b}{3a^3}$$

$$8) \frac{15b - 8}{10}$$

$$9) \frac{xy + 6}{3y}$$

$$10) \frac{8xy - 15}{10xy}$$

$$11) \frac{15mn - 4m}{12n^2}$$

$$12) \frac{10y + 6x}{5xy}$$