

ALGEBRAIC FRACTIONS

Simplify:

1 $\frac{8a - 4b}{4}$

2 $\frac{15x + 10y}{15}$

3 $\frac{14x - 7y}{2x - y}$

4 $\frac{8x^2 - 4xy}{8xy}$

9 $\frac{mn - n^2}{n}$

10 $\frac{p^2q - pq^2}{pq}$

11 $\frac{x^2 + xy}{2x}$

12 $\frac{2rs - 12r}{r^2 + rs}$

ALGEBRAIC FRACTIONS

$$17 \quad \frac{4x^2 - 4xy}{x^2 - y^2}$$

$$18 \quad \frac{x^2 - 7x + 6}{x^2 - 36}$$

$$19 \quad \frac{a^2 + ab}{ab + b^2}$$

$$20 \quad \frac{a^2 - b^2}{a^2 + ab}$$

$$21 \quad \frac{x^2 - 1}{x^2 - 5x + 4}$$

$$22 \quad \frac{x^2 - 6x + 8}{x^2 - x - 2}$$

$$23 \quad \frac{x^2 + 3x + 2}{x^2 - 4}$$

$$24 \quad \frac{x^2 - 5x + 6}{x^2 + x - 12}$$

ALGEBRAIC FRACTIONS

$$25 \frac{x^2 + 4x + 4}{x^2 - 3x - 10}$$

$$26 \frac{4x^3y - 16xy}{x^2 + 2x - 8}$$

$$27 \frac{12a + 9}{15} \times \frac{5}{4a + 3}$$

$$28 \frac{3x^2 - xy}{xy} \times \frac{x^2y}{3xy - y^2}$$

ALGEBRAIC FRACTIONS

$$36 \frac{x^3 + y^3}{x^2 - y^2}$$

$$37 \frac{8x^2 + 4x + 2}{8x^3 - 1}$$

$$38 \frac{2x + 2y}{x^3 - y^3} \times \frac{x^2 - 2xy + y^2}{x^2 - y^2}$$