

Division of Algebraic Expressions Ex 8.6 Q1

## Answer:

$$egin{array}{c} x^2 - 5x + 6 \ x - 3 \ &= rac{x^2 - 3x - 2x + 6}{x - 3} \ &= rac{x(x - 3) - 2(x - 3)}{(x - 3)} \ &= rac{(x - 3)(x - 2)}{(x - 3)} \ &= x - 2 \end{array}$$

Division of Algebraic Expressions Ex 8.6 Q2

## Answer:

$$\frac{ax^{2}-ay^{2}}{ax+ay}$$

$$= \frac{a(x^{2}-y^{2})}{a(x+y)}$$

$$= \frac{a(x+y)(x-y)}{a(x+y)}$$

$$= x-y$$

Division of Algebraic Expressions Ex 8.6 Q3

## Answer:

$$egin{array}{c} rac{x^4 - y^4}{x^2 - y^2} \ &= rac{(x^2)^2 - (y^2)^2}{(x^2 - y^2)} \ &= rac{(x^2 + y^2)(x^2 - y^2)}{(x^2 - y^2)} \ &= rac{x^2 + y^2}{x^2 - y^2} \end{array}$$

\*\*\*\*\*\*\* END \*\*\*\*\*\*\*