

Division of Algebraic Expressions Ex 8.6 Q1

Answer:

$$\frac{x^{2}-5x+6}{x-3} = \frac{x^{2}-3x-2x+6}{x-3} = \frac{x(x-3)-2(x-3)}{(x-3)} = \frac{(x-3)(x-2)}{(x-3)} = x-2$$

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 *******