Rules of exponents

1. Evaluate

a, $16^{1/2}$

b, $8^{-2/3}$

c, π^0

d, $64^{3/4}$

e, $16^{1/6}$

2. Evaluate

a, $\frac{5x^{2}x_{2}^{6}}{5x_{1}^{5}x_{2}^{1}}$

b, $\frac{x^{t}y^{2}}{x^{t-1}y^{p}}$

C $AK^{0.4}L^{0.2}$

$\frac{1}{K^{0.1}L^{-0.4}}$

Equations and graphs

3. Graph the following

a, $y = x^3 + 1$

b, $y = x^2$

c, $y = -2x$

Natural logarithmic functions

4. Solve

a, $e^x = 9$

b, $2^x = 17$

c, $1 + \ln x = 29$

5. Give the economic interpretation of the Intercepts and slopes of the following functions

a, $Q_S = -c + dp$ (Supply function)

b, $Q_d = a - bp$ (Demand function)

Where

Q_S and Q_d are quantities supplied and demanded, respectively.

p is the price