

Exponents Review

Simplify the following expressions :

$$A = 5^7 \times 5^{-8}$$

$$B = \frac{2^{-12}}{2^{-15}}$$

$$C = \frac{5^5 \times 5^{-12}}{5^{-4} \times 5^{-5}}$$

$$D = \left[\left(\frac{2}{5} \right)^{-3} \times \left(\frac{2}{5} \right)^4 \right]^{-2}$$

$$E = (3x^2y^{-5})^{-4} \times (2x^{-8}y^6)^3$$

$$F = \left(\frac{25x^{-5}}{125x^3} \right)^{-3}$$

$$G = (3x - 5y)^2$$

$$H = \frac{2^5 - 2^4}{2^4 - 2^3}$$

$$I = \frac{7}{7^3}$$

$$J = (6x^3y^{-5})^{-3} \times (36x^{-8}y^7)^2$$

$$K = \left(\frac{2}{3}x^5y^{-12} \right)^5 \times \left(\frac{3}{2}x^{-6}y^4 \right)^3$$

$$L = \left(\frac{8x^3y^{-5}}{2^5x^{-2}y^{-4}} \right)^{-2} \times (32x^6y^8)^{-3}$$

$$M = \left(\frac{2x^5y^3}{3x^{-3}y^8} \right)^{-4}$$

$$N = \frac{3x^0y^5 \times (9x^{-5}y^3)^{-2}}{3^5x^{-8}y^{-2}}$$