

Grade 8 Maths Test**Algebraic Expression and Identities****Max 25**

Q1: Find

a) $\left(\frac{2}{3}x + \frac{4}{5}y\right)\left(\frac{2}{3}x + \frac{4}{5}y\right)$ b) $\left(\frac{1}{9}x^2 - 9\right)\left(\frac{1}{9}x^2 - 9\right)$

c) $(3m - 4n)^2$ d) $\left(\frac{a}{2} + \frac{2}{a}\right)^2$ 4

Q2) Find

a) $\left(x - \frac{1}{x}\right)\left(x + \frac{1}{x}\right)$ b) $(7x + 11y)(7x - 11y)$, c) $(4x^2 - 25)$, d) $(9x - 10)^2$

4

Q3 If $\left(x + \frac{1}{x}\right) = 4$

Find

i) $\left(x^2 + \frac{1}{x^2}\right)$ ii) $\left(x^4 + \frac{1}{x^4}\right)$ 4

Q4 Find using identities

i) $82^2 - 18^2$ ii) (197×203) iii) (0.98×1.02) iv) (999^2) 4

Q5 Find difference of

$(3q+7p^2-2r^3+4)$ and $(4p^2-2q+7r^3-3)$ 3

Q6 Find sum of

$(6xy + 4x^2 + 5Y^2)$ and $(3y^2 - 2xy)$ 3

Q7 Find product of two

$(2x+y)$ and $(3x-2y-7)$ 3