



Division of Algebraic Expressions Ex 8.3 Q1

Answer :

$$\begin{aligned} & \frac{x + 2x^2 + 3x^4 - x^5}{2x} \\ &= \frac{x}{2x} + \frac{2x^2}{2x} + \frac{3x^4}{2x} - \frac{x^5}{2x} \\ &= \frac{1}{2} + x + \frac{3}{2}x^3 - \frac{1}{2}x^4 \end{aligned}$$

Division of Algebraic Expressions Ex 8.3 Q2

Answer :

$$\begin{aligned} & \frac{y^4 - 3y^3 + \frac{1}{2}y^2}{3y} \\ &= \frac{y^4}{3y} - \frac{3y^3}{3y} + \frac{\frac{1}{2}y^2}{3y} \\ &= \frac{1}{3}y^{(4-1)} - y^{(3-1)} + \frac{1}{6}y^{(2-1)} \\ &= \frac{1}{3}y^3 - y^2 + \frac{1}{6}y \end{aligned}$$

Division of Algebraic Expressions Ex 8.3 Q3

Answer :

$$\begin{aligned}& \frac{-4a^3 + 4a^2 + a}{2a} \\&= \frac{-4a^3}{2a} + \frac{4a^2}{2a} + \frac{a}{2a} \\&= -2a^{(3-1)} + 2a^{(2-1)} + \frac{1}{2} \\&= -2a^2 + 2a + \frac{1}{2}\end{aligned}$$

***** END *****