Division of Algebraic Expressions Ex 8.3 Q1

Answer :

$$\frac{x+2x^2+3x^4-x^5}{2x}$$

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

$$= \frac{1}{2} + x + \frac{3}{2}x^3 - \frac{1}{2}x^4$$

Division of Algebraic Expressions Ex 8.3 Q2

Answer :

$$\frac{y^4-3y^3+\frac{1}{2}y^2}{3y}$$

$$= \frac{y^4}{3y} - \frac{3y^3}{3y} + \frac{\frac{1}{2}y^2}{3y}$$

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

$$= \frac{1}{3}y^3 - y^2 + \frac{1}{6}y$$

Division of Algebraic Expressions Ex 8.3 Q3

Answer :

$$\frac{-4a^3+4a^2+a}{2a}$$

$$= \frac{-4a^3}{2a} + \frac{4a^2}{2a} + \frac{a}{2a}$$

$$= -2a^{(3-1)} + 2a^{(2-1)} + \frac{1}{2}$$

$$= -2a^2 + 2a + \frac{1}{2}$$

********** END **********