Assignment Class 8 for Algebraic Exercise 3 Questions Exam Paper

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Question 1

Carry out the multiplication of the expression in each of the following pairs.

(a) $4x, 2x + 2y + z$

(b) $pq, p - q + 1$

(c) $a - b, 7a^2 b^2$

(d) $pq + qr + rp + 1, 0$

(e) $a^{10} \times (2a^{32}) \times (9a^{26})$

(f) $\left(\dfrac{2xy}{3}\right) \times \left(-\dfrac{9x^2 y^2}{10}\right)$

(g) $\left(-\dfrac{10pq^2}{3}\right) x \left(\dfrac{p^3 q}{5} + 1\right)$

(h) $(a) \times (a^2) \times (a^3) \times (a^8) \times (a^{16})$

(i) $(2p + 1), (4p - 3)$

(j) $(x - 2), 3x - 8)$

(k) $(12.5p - 0.5m), (1.5l + 0.5m)$

(l) $(a + 3b), (a + 5 + 1)$

(m) $(x + y + z)(x + y - z)$

Question 2

The Length and Breadth of a rectangle is 2p and 2 and 2 (p + q) . The area of the rectangle is

(a) 4p + 4 pq

(b) 16pq

(c) $4p^2 4pq$

(d) None of these

Question 3

(a) Simplify 3 (4x - 5) + 9x and find its values for (i) $x = 1$ (ii) $x = 0$

(b) Simplify a $(a^2 + a + 1) + 5$ and find its value for (i) $a = 1$, (ii) $a = \dfrac{1}{2}$ (iii) $a = -\dfrac{1}{2}$

Question 4

(a) Add: $p(p-q), q(q-r), r(r-p), 2pq + 2pr + 2qr$

(b) Add: $2x(z-x-y)$ and $2y(z-y-x)$

(c) Subtract: $3l(l-4m+5n)$ from $4l(10n-3m+2l)$

(d) Subtract: $3a(a+b+c)-2b(a-b+c)$ from $4c(-a+b+c)$

(e) Product of $(x+7y)$ and $(7x-y)$

(f) Product of $\left(a^2-b\right)\left(a^2+b^2\right)$

(g) Product $\left(x^2-y^2\right)(2x+3y)$