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

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

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

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

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

(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 $2(p + q)$. The area of the rectangle is

(a) $4p + 4pq$

(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) $a = \frac{1}{2}$ (iii) $a = -\frac{1}{2}$

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 $(a^2 - b)(a^2 + b^2)$

(g) Product of $(x^2 - y^2)(2x + 3y)$