

Practice Set for Algebraic Expressions

1. Choose the correct option:

$3m^2n - 4 + 4nm^2 - 2n^2m + 5$ is a

- (a) Monomial (b) Binomial (c) Trinomial (d) Tetra-nomial

2. The coefficient of $-x^3y^2z$ of the term

$$-17x^4y^3z^2$$

- (a) $17xy^2z$ (b) $-17xyz$ (c) $17xyz^2$ (d) $17xyz$

3. The degree of the polynomial is -

$$8a^5b^6c^7 - 9a^9bc^8 + 15a^{10}cb^8$$

- (a) 18 (b) -9 (c) 19 (d) 20

4. The like term to $-9a^5c^{11}b^7$ is

- (a) $c^{11}b^5c^7$ (b) $8c^{11}a^5b^9$ (c) $3c^{11}a^5b^7$
(d) $-2c^{10}a^5b^7$

5. If $A = 3x^2 - 2xy + 2z^2$, $B = 9x - 5y$
and $\frac{C}{2} = 3x - 5$ then

find $2A - 6B + 3C$.

6. Subtract $5m - 6n + 7p$ from $m - 3n$.

7. Find the perimeter of a rectangle whose length and breadth are $3x - 5y + 6z$ and $+9x - 5y$ respectively.

Also find the value of perimeter

for $x = -2$, $y = -1$ and $z = 3$.

8. If $a = b = -2$ and $c = -2$

then find $2(3a + 4b) + 5c$.