



# VIDYA BHAWAN, BALIKA VIDYAPITH

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(Affiliated to CBSE up to +2 Level)

Class: VII

Subject: Mathematics

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Question 1.

Simplify combining like terms:

(i)  $21b - 32 + 7b - 206$

(ii)  $-z^2 + 13z^2 - 5z + 7z^3 - 15^2$

(iii)  $p - (p - q) - q - (q - p)$

(iv)  $3a - 2b - ab - (a - b + ab) + 3ab$

$+ 6 - a$

(v)  $5x^2y - 5x^2 + 3yx^2 - 3y^2 + x^2 - y^2 + 8xy^2 - 3y^2$  (vi)  $(3y^2 + 5y - 4) - (8y - y^2 - 4)$

Question 2. Add: (i)  $3mn, -5mn, 8mn, -4mn$

(ii)  $t - 8tz, 3tz, -z, z - t$

(iii)  $-7mn + 5, 12mn + 2, 9mn - 8, -2mn - 3$

(iv)  $a + b - 3, b - a + 3, a - b$

$+ 3$

(v)  $14x + 10y - 12xy - 13, 18 - 7x - 10y + 8xy, 4xy$  (vi)  $5m - 7n, 3n - 4m + 2, 2m$

$- 3mn - 5$

(vii)  $4x^2y, -3xy^2, -5xy^2, 5x^2y$

(viii)  $3p^2q^2 - 4pq + 5, -10p^2q^2, 15 + 9pq + 7p^2q^2$

(ix)  $ab - 4a, 4b - ab, 4a - 4b$  (x)  $x^2 - y^2 - 1, y^2 - 1 - x^2, 1 - x^2 - y^2$ .