



- If $A = (-2k^2 - 2k - 2)$, $B = (k^2 + k - 1)$ and $C = (-2k^2 + 2k + 1)$ then $(3A + B + 3C) =$
(i) $(-11k^2 + 4k - 4)$ (ii) $(-12k^2 + k - 4)$ (iii) $(-10k^2 + k - 4)$ (iv) $(-11k^2 + k - 4)$ (v) $(-11k^2 - k - 4)$
- If $A = (3de + 4d + e)$, $B = (2de + 2d + 1)$ and $C = (3d + 2e + 4)$ then $(3A - 3B - 2C) =$
(i) $(2de - e - 11)$ (ii) $(3de - 3e - 11)$ (iii) $(3de - e - 11)$ (iv) $(4de - e - 11)$ (v) $(3de + e - 11)$
- If $A = (-3lmn + 2lm)$, $B = (5mn + m)$ and $C = (-4ln - 4m)$ then $(-A + 2B - 3C) =$
(i) $(3lmn - 2lm + 12ln + 10mn + 14m)$ (ii) $(4lmn - 2lm + 12ln + 10mn + 14m)$
(iii) $(3lmn - 4lm + 12ln + 10mn + 14m)$ (iv) $(3lmn + 12ln + 10mn + 14m)$
(v) $(2lmn - 2lm + 12ln + 10mn + 14m)$
- If $A = (3vw + 2v + 1)$, $B = (-3v - w - 1)$ and $C = (-2vw - 5v + 1)$ then $(-2A - B + C) =$
(i) $(-8vw - 3v + w)$ (ii) $(-7vw - 6v + w)$ (iii) $(-8vw - 8v + w)$ (iv) $(-9vw - 6v + w)$ (v) $(-8vw - 6v + w)$
- If $A = (4a^2 + a + 1)$, $B = (5a^2 + 5a + 2)$ and $C = (-5a^2 + 2a + 2)$ then $(2A + B + 2C) =$
(i) $(3a^2 + 11a + 8)$ (ii) $(3a^2 + 9a + 8)$ (iii) $(2a^2 + 11a + 8)$ (iv) $(4a^2 + 11a + 8)$ (v) $(3a^2 + 14a + 8)$
- If $A = (3q + r - 1)$, $B = (3qr + r + 2)$ and $C = (-3qr - 5q + 4)$ then $(A + 3B - 2C) =$
(i) $(16qr + 13q + 4r - 3)$ (ii) $(15qr + 10q + 4r - 3)$ (iii) $(15qr + 13q + 4r - 3)$ (iv) $(14qr + 13q + 4r - 3)$
(v) $(15qr + 16q + 4r - 3)$
- If $A = (5de - 5ef)$, $B = (-5f - 2)$ and $C = (3d + 3ef)$ then $(3A - 3B - 3C) =$
(i) $(15de - 12d - 24ef + 15f + 6)$ (ii) $(15de - 9d - 24ef + 15f + 6)$ (iii) $(14de - 9d - 24ef + 15f + 6)$
(iv) $(16de - 9d - 24ef + 15f + 6)$ (v) $(15de - 6d - 24ef + 15f + 6)$
- If $A = (-6hi + h - 6i)$, $B = (-h + 7i + 2)$ and $C = (-5hi - h + 5)$ then $(3A - B - 2C) =$
(i) $(-7hi + 6h - 25i - 12)$ (ii) $(-8hi + 4h - 25i - 12)$ (iii) $(-8hi + 6h - 25i - 12)$ (iv) $(-8hi + 8h - 25i - 12)$
(v) $(-9hi + 6h - 25i - 12)$
- If $A = (5g^2 - 4g + 3)$, $B = (2g^2 + 5g + 2)$ and $C = (-2g^2 - 10g + 2)$ then $(-3A + 3B + C) =$
(i) $(-11g^2 + 14g - 1)$ (ii) $(-11g^2 + 17g - 1)$ (iii) $(-10g^2 + 17g - 1)$ (iv) $(-12g^2 + 17g - 1)$
(v) $(-11g^2 + 20g - 1)$
- If $A = (-3kl + 4l - 8)$, $B = (-4kl + 2l - 3)$ and $C = (-3k - 5l - 5)$ then $(A + B - 2C) =$
(i) $(-7kl + 9k + 16l - 1)$ (ii) $(-8kl + 6k + 16l - 1)$ (iii) $(-7kl + 3k + 16l - 1)$ (iv) $(-7kl + 6k + 16l - 1)$
(v) $(-6kl + 6k + 16l - 1)$

11. If $A = (5pr - 4q)$, $B = (3p - 4r)$ and $C = (-3p - 4q)$ then $(2A - B + C) =$
(i) $(10pr - 6p - 12q + 4r)$ (ii) $(9pr - 6p - 12q + 4r)$ (iii) $(11pr - 6p - 12q + 4r)$ (iv) $(10pr - 9p - 12q + 4r)$
(v) $(10pr - 3p - 12q + 4r)$
12. If $A = (3vw + 5v - 3w)$, $B = (-4v + 2w - 3)$ and $C = (-5v + w + 3)$ then $(-3A - B - 3C) =$
(i) $(-9vw + 7v + 4w - 6)$ (ii) $(-10vw + 4v + 4w - 6)$ (iii) $(-9vw + 4v + 4w - 6)$ (iv) $(-8vw + 4v + 4w - 6)$
(v) $(-9vw + 2v + 4w - 6)$
13. If $A = (-s^2 - 2s + 5)$, $B = (-2s^2 - 2s - 5)$ and $C = (2s^2 + 3s + 4)$ then $(-A - B + 3C) =$
(i) $(8s^2 + 13s + 12)$ (ii) $(9s^2 + 15s + 12)$ (iii) $(10s^2 + 13s + 12)$ (iv) $(9s^2 + 13s + 12)$ (v) $(9s^2 + 11s + 12)$
14. If $A = (4x + 4y + 2)$, $B = (-3xy + 4x + 3y)$ and $C = (3x - 3y + 3)$ then $(3A + 3B - 2C) =$
(i) $(-9xy + 18x + 27y)$ (ii) $(-10xy + 18x + 27y)$ (iii) $(-9xy + 15x + 27y)$ (iv) $(-9xy + 20x + 27y)$
(v) $(-8xy + 18x + 27y)$
15. If $A = (4st - 4su)$, $B = (s - 5)$ and $C = (2st - 5u)$ then $(-A + 3B - 2C) =$
(i) $(-8st + 6su + 3s + 10u - 15)$ (ii) $(-8st + su + 3s + 10u - 15)$ (iii) $(-9st + 4su + 3s + 10u - 15)$
(iv) $(-8st + 4su + 3s + 10u - 15)$ (v) $(-7st + 4su + 3s + 10u - 15)$
16. If $A = (-5bc - 2b + 5c)$, $B = (b + 5c - 1)$ and $C = (3bc - b - 5)$ then $(-3A + 2B - C) =$
(i) $(11bc + 9b - 5c + 3)$ (ii) $(13bc + 9b - 5c + 3)$ (iii) $(12bc + 11b - 5c + 3)$ (iv) $(12bc + 6b - 5c + 3)$
(v) $(12bc + 9b - 5c + 3)$

Assignment Key

1) (iv)	2) (iii)	3) (i)	4) (v)	5) (i)	6) (iii)
7) (ii)	8) (iii)	9) (ii)	10) (iv)	11) (i)	12) (iii)
13) (iv)	14) (i)	15) (iv)	16) (v)		