

Q4. Find the following products:

[1+1]

(a) $(a + 3)(a + 5)$

(b) $(x - 2y)(x - 3y)$

Q5. Simplify each of the following:

[2+2]

(a) $5 + (y + 1)(y + 3)$

(b) $2m - (m - 4)(5m - 6)$

Q6. Simplify the following:

[2+2]

(a) $(x^2 + 2x - 1)(x + 5)$

(b) $(2x^2 + 3x + 2)(5x - 4)$

Q7. Expand each of the following:

[2+2]

(a) $(2x + 3y)^2$

(b) $(5x - 3y)^2$

Q8. Expand each of the following:

[1+1]

(a) $(3x + 2y)(3x - 2y)$

(b) $(2p + 11)(2p - 11)$

Q9. Expand the following expression:

[3+3]

(a) $(x + 2)(3x - 1)(x + 3)$

(b) $(3p + 3)(2p - 1)(p - 2)$

Q10. Simplify $4(3x - 2y + 1) - (5x - 3y + 1)$.

[3]

Answers:

Q1: (a) $12a + 16b$, (b) $-24x - 40y$

Q2: (a) $9x - 2$, (b) $-8x - 2$

Q3: (a) $8x^2 - 5xy$, (b) $-11ah + 17ak$

Q4: (a) $a^2 + 8a + 15$, (b) $x^2 - 5xy + 6y^2$

Q5: (a) $y^2 + 4y + 8$, (b) $-5m^2 + 28m - 24$

Q6: (a) $x^3 + 7x^2 + 9x - 5$, (b) $10x^3 + 7x^2 - 2x - 8$

Q7: (a) $4x^2 + 12xy + 9y$, (b) $25x^2 - 30xy + 9y$

Q8: (a) $9x^2 - 4y^2$, (b) $4p^2 - 121$

Q9: (a) $3x^3 + 14x^2 + 13x - 6$, (b) $6p^3 - 9p^2 - 9p + 6$

Q10: $7x - 5y + 3$