

Workout

Question 1:

(a) $w^2 + 6w + 8$

(b) $y^2 + 3y + 2$

(c) $c^2 + 7c + 10$

(d) $x^2 + 13x + 42$

(e) $a^2 + 2a - 15$

(f) $g^2 + 3g - 28$

(g) $s^2 + s - 20$

(h) $x^2 - 2x - 3$

(i) $p^2 - 5p + 6$

(j) $y^2 - 8y + 16$

(k) $k^2 - 11k + 30$

(l) $v^2 + 7v + 12$

(m) $n^2 - 2n - 80$

(n) $b^2 + 4b - 21$

(o) $z^2 - 12z + 27$

(p) $a^2 + 2a - 35$

(q) $w^2 - 6w - 16$

(r) $r^2 + 14r + 49$

(s) $w^2 - 10w - 11$

(t) $t^2 - 15t + 56$

Question 2:

(a) $16 + 10x + x^2$

(b) $36 - 5y - y^2$

(c) $3 + 4y + y^2$

(d) $40 - 14t + t^2$

(e) $2w + 8 - w^2$

(f) $10x - x^2 - 24$

(g) $16 + r^2 - 10r$

(h) $6x + 16 - x^2$

Question 3:

(a) $y^2 - 4$

(b) $w^2 - 49$

(c) $a^2 - 1$

(d) $x^2 - 100$

(e) $g^2 - 64$

(f) $36 - x^2$

(g) $16 - r^2$

(h) $121 - y^2$

Question 4:

(a) $4c^2 + 8c + 3$

(b) $10x^2 + 27x + 5$

(c) $3w^2 + 5w + 2$

(d) $6p^2 + p - 2$

(e) $5g^2 + g - 4$

(f) $8a^2 + 2a - 21$

(g) $8r^2 - 22r + 15$

(h) $18y^2 - 29y + 3$

(i) $10k^2 - 13k + 4$

(j) $4n^2 + 16n + 15$

(k) $6b^2 + 35b + 36$

(l) $12z^2 - 64z + 45$

(m) $12w^2 - 13w + 3$

(n) $12r^2 + 17r + 6$

(o) $10w^2 - 17w + 3$

(p) $15 + 13c + 2c^2$

(q) $27 - 12x - 4x^2$

(r) $18 + 19y - 12y^2$

(s) $9w^2 - 4$

(t) $4y^2 - 9$

(u) $25w^2 - 1$

(v) $81 - 25a^2$

(w) $1 - 4x^2$

(x) $9 - 4y^2$

Question 5:

(a) $a^2 + 4a + 4$

(b) $x^2 + 14x + 49$

(c) $z^2 - 18z + 81$

(d) $p^2 + 2p + 1$

(e) $c^2 - 10c + 25$

(f) $k^2 + 8k + 16$

(g) $y^2 - 6y + 9$

(h) $100 + 20r + r^2$

(i) $9g^2 + 12g + 4$

(j) $4b^2 - 4b + 1$

(k) $9m^2 - 30m + 25$

(l) $4v^2 + 36v + 81$

(m) $49 - 14a + a^2$

(n) $16 - 24s + 9s^2$

(o) $64 + 80h + 25h^2$

(p) $49 - 28p + 4p^2$

Question 6:

(a) $2a^2 + 10a + 11$

(b) $3w^2 - 4w + 3$

(c) $2x^2 + 29x + 39$

(d) $x^2 + 7x + 6$

(e) $2x^2 + 10x + 17$

(f) $3x^2 + 14x - 24$

Apply

Question 1: It should be $5y^2 - 11y + 2$ as $-1 \times -2 = +2$

Question 2: The answer is $x^2 - 14x + 49$ as it is $(x - 7)(x - 7)$