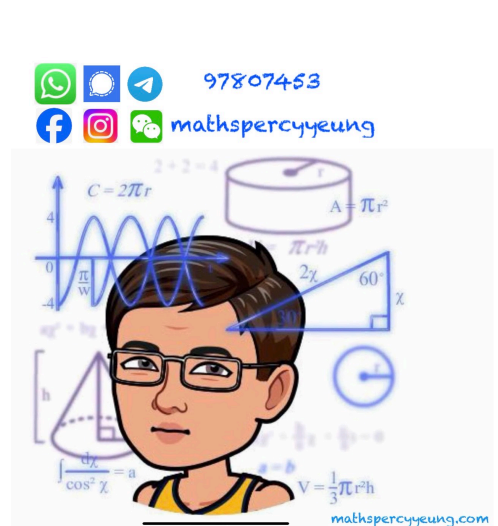


Ch 1 More about Factorization of Polynomials

(from Quick Practice 1.1)

Factorize the following expressions.

- (a) $5ab - 15bc$
- (b) $-6x^3y - 15x^2y^2$



(from Quick Practice 1.2)

Factorize the following expressions.

- (a) $q(p - 5) + 7(5 - p)$
- (b) $15(r - 4) + (4 - r)^2$

(from Quick Practice 1.3)

Factorize the following expressions.

- (a) $4hx - 6h - 14x + 21$
- (b) $6ab + b - 2a - 3b^2$
- (c) $10a - 15a^2 - 5 + 30a^3$

Factorize the following expressions.

(a) $81a^2 - 121$ (from Quick Practice 1.4(a))

(b) $9m^2 - 12mn + 4n^2$ (from Quick Practice 1.4(b))

(from Quick Practice 1.5)

Factorize $4(r - 2)^2 + 4(r - 2) + 1$.

(from Quick Practice 1.6)

Factorize the following expressions.

(a) $x^2 + 6x + 8$ **(b)** $x^2 - 10x + 16$

(from Quick Practice 1.7)

Factorize the following expressions.

(a) $x^2 + 4x - 12$ **(b)** $x^2 - 6x - 16$

Factorize the following expressions.

(a) $7x + x^2 - 18$ (from Quick Practice 1.8(a))

(b) $-x^2 + 9x - 20$ (from Quick Practice 1.8(b))

(from Quick Practice 1.9)

Factorize the following expressions.

(a) $3y^2 - 7y + 4$

(b) $8z^2 - 2z - 3$

(from Quick Practice 1.10)

Factorize the following expressions.

(a) $-2x^2 - 9x - 4$

(b) $-5x - 6x^2 + 6$

(from Quick Practice 1.11)

Factorize $36b - 15b^2 + 27$.

(from Quick Practice 1.12)

Factorize the following expressions.

(a) $x^2 - 2xy - 8y^2$

(b) $5x^2 - 7xy + 2y^2$

(from Quick Practice 1.13)

Factorize the following expressions.

(a) $-4a^2 + 9ab - 2b^2$

(b) $36x^2 - 56xy - 32y^2$

(from Quick Practice 1.14)

Factorize $3x^2 - 4(3 + 4x)$.

(from Quick Practice 1.15)

(a) Factorize $x^2 + 2x - 24$.

(b) Hence, factorize $(y - 3)^2 + 2(y - 3) - 24$.

(from Quick Practice 1.16)

Factorize

(a) $4h^2 - 20hk + 21k^2$,

(b) $4h^2 - 20hk + 21k^2 - 4h + 6k$.

(from Quick Practice 1.17)

(a) Factorize $x^2 + 4x - 12$.

(b) Hence, simplify $\frac{2}{x^2 + 4x - 12} - \frac{1}{x + 6}$.