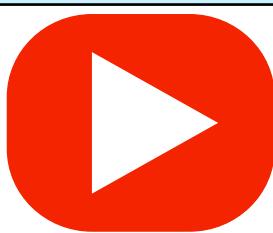


Examples



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Workout

Question 1: Expand and simplify

- (a) $(x + 3)(x + 2)(x + 1)$
- (b) $(x + 2)(x + 2)(x + 5)$
- (c) $(x + 3)(x - 2)(x + 1)$
- (d) $(x - 1)(x - 2)(x + 7)$
- (e) $(x - 2)(x - 3)(x - 4)$
- (f) $(x - 6)(x + 1)(x - 2)$
- (g) $(2x + 1)(x + 3)(x + 1)$
- (h) $(3x - 2)(x + 5)(x - 1)$
- (i) $(5x + 3)(x - 1)(x + 2)$
- (j) $x(x - 3)(2x + 5)$
- (k) $(3x + 5)(3x + 2)(x - 10)$

Question 2: Expand and simplify

- (a) $(x + 2)^3$
- (b) $(x + 5)^3$
- (c) $(x - 3)^3$
- (d) $(x - 5)^3$
- (e) $(x + 1)(x + 3)^2$
- (f) $(x - 5)(x - 4)^2$
- (g) $(2x + 3)^3$
- (h) $(4 - x)^3$
- (i) $(5 - 2x)^3$
- (j) $(x + 2)(3 - x)^2$
- (k) $x(x + 6)^2$

Question 3: Expand and simplify

- (a) $(3x + 2)(x + 1)(x + 5) + (x + 3)^3$
- (b) $(2x - 3)^3 - (x - 4)^3$

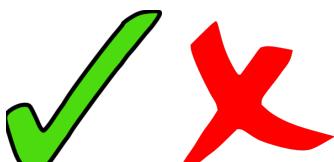
Apply

Question 1: Given $(x + 3)(x + a)(x + 7) = x^3 + 15x^2 + 71x + 105$, find a.

Question 2: Given $(ax + 1)(x - 3)(x + b) = 2x^3 - 3x^2 - 8x - 3$, find a and b.

Question 3: Given $(x + a)^2(x - 2) = x^3 + bx^2 + 12x - 72$, find a and b

Answers



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