

L/Obj : Expanding and factorising expressions

1. Expand the following :

(a) $3(x + 4) = \dots\dots\dots$ (b) $x(x - 3) = \dots\dots\dots$

(c) $2x(x + 1) = \dots\dots\dots$ (d) $x^2(2 - x) = \dots\dots\dots$

2. Factorise the following :

(a) $4x + 8 = \dots\dots\dots$ (b) $x^2 - 3x = \dots\dots\dots$

(c) $6x^2 + 18x = \dots\dots\dots$ (d) $9x^3 - 18x = \dots\dots\dots$

3. Factorise fully the expression : $30m + 12m^3$

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4. Expand and simplify the following :

(a) $(x + 4)(x + 6) = \dots\dots\dots$

(b) $(x - 4)(x - 5) = \dots\dots\dots$

(c) $(x - 1)^2 = \dots\dots\dots$

(d) $(x - 5)(x + 5) = \dots\dots\dots$

5. Factorise the following quadratic expressions ;

(a) $x^2 + 5x + 6 = \dots\dots\dots$

(b) $x^2 - 5x + 6 = \dots\dots\dots$

(c) $x^2 + 7x + 10 = \dots\dots\dots$

(d) $x^2 - 3x - 10 = \dots\dots\dots$