1.5 Polynomials

Question Paper

Course	Edexcel IAL Maths: Pure 1
Section	1. Algebra & Functions
Торіс	1.5 Polynomials
Difficulty	Easy

Time allowed:	40
Score:	/30
Percentage:	/100

Head to <u>savemyexams.co.uk</u> for more awesome resources

Question 1

Expand

(i) $3(x^2 + 4)$ (ii) $5y^2(y - 6)$ (iii) xy(2x + 7y)

[5 marks]

Question 2

Expand and simplify

- (i) (2x+3)(x-4)
- (ii) 2p(p+3)(p-2)
- (iii) $(y-1)(y-2)^2$

[5 marks]

Question 3

- (i) A triangle has base (6x + 8) and height 2x units. Find an expression for the area of the triangle.
- (ii) A cube has side length of (3x 5) units. Find an expression for the volume of the cube.

[4 marks]

Question 4

Factorise

- (i) 5*x* − 20
- (ii) $2y^2 4y$
- (iii) $8xy^2 + 6xy$

[5 marks]

Head to <u>savemyexams.co.uk</u> for more awesome resources

Question 5

Factorise

(i) $x^{2} + 5x + 4$ (ii) $x^{2} - 7x + 12$ (iii) $x^{2} + 5x - 14$ (iv) $x^{2} - 81$

[7 marks]

Question 6

Factorise

- (i) $4x^2 4x 15$
- (ii) $3x^3 + 11x^2 4x$

[4 marks]