## **Factoring Trinomials**



Factorise the following quadratic expressions.

#### Section A

1) 
$$x^2 + 7x - 30$$

4) 
$$x^2 - 18x + 80$$

7) 
$$x^2 - 9x - 22$$

10) 
$$x^2 - 17x + 72$$

2) 
$$x^2 + 9x + 20$$

5) 
$$x^2 - 11x + 28$$

8) 
$$x^2 - x - 12$$

11) 
$$x^3 - x - 42$$

3) 
$$x^2 + 8x - 9$$

6) 
$$x^2 + 6x - 72$$

9) 
$$x^2 + 3x - 108$$

12) 
$$x^3 - 15x + 56$$

#### Section B

1) 
$$2x^2 + 3x + 1$$

5) 
$$2x^2 + 9x + 7$$

2) 
$$2x^2 + 5x + 2$$

6) 
$$2x^3 + 5x + 3$$

10) 
$$2x^2 + 16x + 24$$

3) 
$$2x^2 + 7x + 3$$

7) 
$$2x^2 + 8x + 6$$

11) 
$$2x^2 + 12x + 18$$

15) 
$$2x^2 + 26x + 72$$

4) 
$$2x^3 + 7x + 5$$

8) 
$$2x^2 + 9x + 10$$

12) 
$$2x^2 + 14x + 20$$

#### Section C

1) 
$$2x^2 + x - 1$$

5) 
$$2x^2 - 13x - 24$$

9) 
$$3x^2 - 21x + 36$$

13) 
$$2x^2 - 11x + 15$$

2) 
$$2x^3 + x - 3$$

6) 
$$3x^3 - 14x - 5$$

10) 
$$5x^2 - 41x + 8$$

3) 
$$2x^2 + 9x - 5$$

7) 
$$3x^2 - 8x - 11$$

11) 
$$3x^2 - 2x - 21$$

4) 
$$2x^2 - 3x - 2$$

8) 
$$2x^2 - 14x + 12$$

12) 
$$2x^2 + 2x - 12$$

#### Section D

1) 
$$4x^2 + 12x + 8$$

8) 
$$6x^2 - 5x - 4$$

2) 
$$6x^3 + 23x + 20$$

9) 
$$6x^2 - 16x + 15$$

16) 
$$18x^2 + 51x + 8$$

10) 
$$8x^2 + 16x - 24$$

4) 
$$4x^2 + 31x + 21$$

11) 
$$7x^2 + 52x - 32$$

18) 
$$30x^2 - 32x + 8$$

5) 
$$4x^2 + 22x + 18$$

6) 
$$8x^2 + 22x + 15$$

13) 
$$9x^2 + 36x + 35$$

20) 
$$24x^2 - 50x - 14$$

7) 
$$8x^2 + 36x + 16$$

14) 
$$12x^2 - 42x + 30$$

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**A Gutmann** 

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