

Factorising Algebraic Expressions

1)

Factorise **fully**

$$2x^2 - 18.$$

2

2)

Factorise

$$x^2 - 5x - 24.$$

2

3)

Factorise

$$x^2 + x - 6.$$

2

4)

Factorise $x^2 - 4x - 21$.

2

5)

(a) Factorise

$$x^2 - y^2.$$

1

(b) Hence, or otherwise, find the value of

$$9 \cdot 3^2 - 0 \cdot 7^2. \quad \text{(Do not use a calculator)}$$

2

6)

Factorise

$$6ab - 7bc.$$

1

7)

Factorise

$$x^2 - 4y^2.$$

1

8)

Factorise fully

$$5x^2 - 45.$$

2

9)

Factorise **fully**

$$3x^2 + 9x - 12.$$

3

10)

(a) Factorise

$$a^2 + 2ab + b^2.$$

1

(b) Hence, or otherwise, find the value of

$$94^2 + 2 \times 94 \times 6 + 6^2.$$

2