

Complex factorising

Total Marks: 23

Question 1

Factorise

$$3x^2 - 8x - 3$$

.....

(2 marks)

Question 2

Factorise

$$2t^2 - 7t + 3$$

.....

(2 marks)

Question 3

Factorise

$$2x^2 - 7x + 6$$

.....

(2 marks)

Question 4

Factorise

$$2t^2 + 5t + 2$$

.....

(3 marks)

Question 5

Factorise

$$a^2 - b^2$$

.....

(1 mark)

Question 6

Factorise

$$4x^2 - 9$$

.....

(1 mark)

Question 7

Factorise

$$4c^2 - 9d^2$$

.....

(1 mark)

Question 8

Factorise fully

$$2e^2 - 18$$

.....
(2 marks)

Question 9It can be shown that $a^2 - b^2 \equiv (a - b)(a + b)$ Hence, or otherwise, simplify fully $(x^2 + 4)^2 - (x^2 - 2)^2$
(3 marks)

Question 10

Factorise

$$4p^2 - 9q^2$$

.....
(2 marks)

Question 11Factorise $6p^2 - 5pq - 6q^2$
(2 marks)

Question 12Factorise $3(x - y)^2 - 2(x - y)$

.....

(2 marks)
