

Factorising

Total Marks: 22

Question 1

Factorise

$$3x^2 - x$$

.....

(1 mark)

Question 2

Factorise fully

$$4p + 6pq$$

.....

(2 marks)

Question 3

Factorise fully

$$18e^3f + 45e^2f^4$$

.....

(2 marks)

Question 4

Factorise

$$g^2 + 4g$$

.....

(2 marks)

Question 5

Factorise fully

$$x^2y + xy^2$$

.....

(2 marks)

Question 6

Factorise fully

$$12d^2e + 16d^2e^2$$

.....

(2 marks)

Question 7

Factorise fully

$$4(x - 5)^2 + 3(x - 5)$$

.....

(2 marks)

Question 8

Factorise

$$x^2 + 4x + 3$$

.....

(2 marks)

Question 9

Factorise fully

$$x^2 + 5x - 6$$

.....

(2 marks)

Question 10

Factorise

$$y^2 - 2y - 48$$

.....

(2 marks)

Question 11

Josh is trying to factorise $x^2 - 6x + 8$

His reasoning is,

because $4 \times 2 = 8$

and $4 + 2 = 6$

then $x^2 - 6x + 8 = (x + 4)(x + 2)$

Explain what is wrong with Josh's reasoning.

.....

(1 mark)

Question 12

Factorise

$$x^2 + px + qx + pq$$

.....

(2 marks)
