1 (c) Solve $\dfrac{4x-2}{3} - \dfrac{5-3x}{4} = 6$

Show clear algebraic working.

$x =$ ....

(4)

(Total for Question 1 is 4 marks)

2 (d) Solve $3(2x - 5) = \dfrac{9 - x}{2}$

Show clear algebraic working.

$x =$ ....

(4)

(Total for Question 2 is 4 marks)

3 Given that $\dfrac{w^5 \times w^n}{w^3} = w^{10}$

(c) work out the value of n.

$n = $ ....

(2)

(Total for Question 3 is 2 marks)

4 Given that $4^{k+3} = 16 \times 2^k$

(c) find the value of k.
Show your working clearly.

$k =$ ....

(4)

(Total for Question 4 is 4 marks)

5 Given that $\dfrac{y^5 \times y^n}{y^6} = y^{13}$

(b) work out the value of n.

$n = $ ....

(2)

(Total for Question 5 is 2 marks)