1 Given that $n > 0$

make n the subject of the formula $y = \dfrac{n^2 + d}{n^2}$

.....

(Total for Question 1 is 4 marks)

2 Make x the subject of $y = \dfrac{5 - 2x}{x + 3}$

.....

(Total for Question 2 is 4 marks)

3 (a) Make a the subject of $d = g + 2ac$

.....

(2)

(Total for Question 3 is 2 marks)

4 Make x the subject of $y = \sqrt{\dfrac{x+1}{x-4}}$

.....

(Total for Question 4 is 4 marks)

5 (b) Make t the subject of the formula $p = at - d$

.....

(2)

(Total for Question 5 is 2 marks)

6 (a) Make c the subject of $A = \frac{c}{y} - 5z$

.....

(2)

(Total for Question 6 is 2 marks)

7 (b) Make c the subject of the formula $p = \sqrt{\dfrac{ac + 8}{3 + c}}$

.....

(4)

(Total for Question 7 is 4 marks)

8 (b) Make c the subject of $g = \dfrac{c+3}{4+c} - 7$

.....

(4)

(Total for Question 8 is 4 marks)

9 $a = \dfrac{14}{3x - 7}$ $x = \dfrac{7}{4y - 3}$

Express a in the form $\dfrac{py + q}{ry + s}$ where p, q, r and s are integers.

Give your answer in its simplest form.

$a =$ .....

(Total for Question 9 is 3 marks)

10 Make t the subject of $n^2 = \dfrac{4d + t^3}{t^3}$

.....

(Total for Question 10 is 4 marks)

11 (d) Make t the subject of $c = t^3 - 8v$

.....

(2)

(Total for Question 11 is 2 marks)

12 Make x the subject of $y = \sqrt[3]{\dfrac{6 + 5x}{x + 4}}$

.....

(Total for Question 12 is 4 marks)

13 (b) Make e the subject of $w = \sqrt{\dfrac{e+g}{ef-d}}$

.....

(4)

(Total for Question 13 is 4 marks)