A157 Rearranging formula 2

Q1.

Make *a* the subject of $a + 3 = \frac{2a + 7}{r}$

.....

(Total for question = 3 marks)

Q2.

Make *t* the subject of the formula $k = \frac{2(t + 3)}{t - 3}$

.....

(Total for question = 4 marks)

Q3.

Make *m* the subject of

$$f = \frac{4 - 3m}{5 + m}$$

.....

(Total for question = 4 marks)

Q4.

Make *m* the subject of the formula $f = \frac{3m + 4}{m - 1}$

.....

(Total for question = 3 marks)

Q5.

Make x the subject of $y = \sqrt{\frac{2x+1}{x-1}}$

.....

(Total for Question is 4 marks)

Q6.

Make x the subject of the formula $y = \frac{ax+b}{cx+d}$

.....

(Total for question = 4 marks)

Q7.

Make *e* the subject of $k = \sqrt{\frac{5m + 2e}{3e}}$

.....

(Total for question = 4 marks)

Q8.

Given that *y* is positive, make *y* the subject of $y = \sqrt{ay^2 + n}$

Show clear algebraic working.

y = ...

(Total for Question is 5 marks)

Q9.

(a) Simplify fully $\dfrac{2x^2 - 5x + 3}{x^2 + 5x - 6}$

.....

(3)

(b) Make *m* the subject of

$$\frac{m}{v} - \frac{t}{b} = \frac{m - t}{R}$$

.....

(4)

(Total for question = 7 marks)