(b) Copy and complete the following table.

n	1	2	3	4	5
G_n					
R_n					
T_n					

(c) Find, in terms of n, an expression for
  (i) G_n,   (ii) R_n,   (iii) T_n.

(d) Calculate the values of
  (i) G_8,   (ii) R_{11}.

(e) Calculate the value of n if $T_n = 552$.

18. Let $x = \dfrac{t-1}{t+1}$ and $y = \dfrac{2t+1}{2t-3}$.

(a) Find the values of x and y when $t = \dfrac{3}{4}$. Express your answers as fractions.

(b) Express t in terms of
  (i) x,   (ii) y.

(c) Hence or otherwise, express y in terms of x.

19. (a) Factorise the following.
  (i) $4x^2 - y^2$ (ii) $4x^2 + 4xy + y^2$

(b) Hence or otherwise, factorise
$$3(4x^2 - y^2) - 5(4x^2 + 4xy + y^2).$$

(c) Simplify $\dfrac{2}{x-3} - \dfrac{7}{x^2 - 6x + 9}$.

20. Consider the formula $\dfrac{1}{r} = \dfrac{2}{p} + \dfrac{3}{q}$, where $r \neq 0$, $p \neq 0$ and $q \neq 0$.

(a) Calculate the value of r when $p = 3$ and $q = -5$.

(b) Make q the subject of the formula.

(c) If $p = \dfrac{3t+1}{t-1}$ and $r = \dfrac{t+1}{3t-1}$, express q in terms of t.