Substitution and formulas 1b

- 1) If p = -4, q = 5 and r = 10 | 3) Find the general term of find the value of
- pq + ra)
- b)
- c)
- d) $p^2 + q^2 + r^2$
- 2) The general term of a number pattern is given by $T_n = 2n - 5$

Find

- a) the first 4 terms
- b) the 10th term
- c) the 50th term

the number pattern

$$T_n =$$

4) The formula for the area of a trapezium is

$$A = \frac{1}{2} h(a + b)$$

Find the area if h = 6 cm, a = 3 cm and b = 4 cm.

- 5) Write an expression for
- a) the sum of g and k²
- b) the product of 6y and a
- c) the average of v, w, x, y, and z
- d) half of 8k
- e) 3 times the sum of 5a and 8
- 6) Given f(x) = 2x + 3 and $g(x) = x^2 + 1$ find
- a) f(4)
- b) g(5)

- c) f(2)
- d) g(a)
- f(x) + g(x)
- 7) Construct a formula for
- a) the number of minutes (M) in H hours M =
- b) the average speed (S) of a car travelling D km in H hours.

- 8) Write an equation linking x and y
- a)

Х	0	1	2	3
у	2	7	12	17

h۱

U)								
	Х	0	1	2	3			
	у	3	4	5	6			