

# 10 CMR Algebra Homework

1) Expand and simplify

a)  $6(2x+3) - 4(x-7)$

b)  $(2x-1)(x+3)$

2) Factorise

a)  $12hkj - 8h^2k$

b)  $6p^2q + 3pq^2$

3) Solve

a)  $2x - 7 = 11$

b)  $5x - 14 = 26 - 3x$

c)  $3(2x+5) = 2(x-7) + 45$

d)  $\frac{2x+3}{5} = 3$

e)  $\frac{x}{2} + 5 = 11$

4)  $s = ut + \frac{1}{2}at^2$

Find  $s$  when

$u=5, t=6, a=8$

5)  $v^2 = u^2 + 2as$

Find  $v$  when

$u=7, a=6, s=45$