

National 5 Homework

Mixed algebra 1

Q1. Multiply out and simplify the following:

(a) $5(2x-3)$

(b) $3x(2x-y)$

(c) $y(y-3)+2(y+4)$

Q2. Expand the brackets:

(a) $(x+3)(x+1)$

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

(c) $(2x-5)(3x-4)$

Q3. Fully factorise:

(a) $3x-9$

(b) p^2+6p

(c) $4z^2-8z$

Q4. Fully factorise:

(a) x^2-25

(b) $2x^2-18$

(c) $5x^2-45y^2$

Q5. Fully factorise:

(a) $x^2+10x+16$

(b) x^2-5x-6

(c) $2x^2+7x-15$