



KEC

K Education Centre



GCSE Higher Mathematics

Algebraic expressions - (Expanding and Factorising)

Assignment Questions

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Q1: Expand the following :

a) $(z+6)(z+5)$

b) $(x-6)(x-10)$

Q2 : Factorise :

a) $20ab^2 + 40ab^6 + a^3b^3$

b) $10xy^3 + 20x^2y^4 + 30xy$

Q3 : A triangle has a base of $(2y+5)$ and a perpendicular $(4y+8)$. Find the area of the triangle.

Q4 : Expand and simplify the following :

a) $4b(4b + b^2) - 6b^2(2 - 4b)$

b) $(y-10)(y-20)$

Q5: A rectangle with sides 6 and $3y+2$ has a small rectangle with sides 3 and $y-1$ cut of it. Work out the remaining area.

Q6 : Expand $(y+10)(y+6)$ and use this to find the value of

a) 110×106 b) 10.01×6.01

Q7 : Expand

a) $(mn + yz)(mn - yz)$

b) $(2 - 4p)(3 - 5p)$

Q8: Expand $(3a+b)(3a - b)$ use this to find the value of 33×27