



KEC

K Education Centre



KS3 Year 9 Mathematics

Algebra -Quadratic And Indices

Assignment Questions

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Algebra - Factorising and Indices

Q1 :Factorise the following:

a) $y^2 + 2y + 1$

b) $y^2 - 7y + 10$

c) $y^2 - 5y + 6$

Q2 : Factorise the following using differences of squares : [$a^2 - b^2 = (a-b)(a+b)$]

a) $y^2 - 36$

b) $y^2 - 100$

Q3 : Simplify the following :

a) $b^3 \times b^5$

b) $(4c)^2$

c) $5a \times 6a / 2$

d) $\frac{a+5a}{2}$

e) $(5z)^3$

f) $(20y^2)^0$

g) $(y^2 \times y^6)^0$

h) $(x^2y)^3$