

## WORKING AT B/C

(1) Expand and simplify  $-2x(3-x)^2$ 

## WORKING AT A\*/A

(1) Expand and simplify  $\left(x^{\frac{2}{3}} + x^{0.5}\right)^2$ 

(2) Find the terms independent of x in the expansion of:  $(x + y)(4x - y)\left(y - \frac{3}{x}\right)$ 

(3) The two shorter sides of a right-angled triangle

expression for the length of the remaining side in the

are  $(x + 1)^{\frac{1}{2}}$  and (x - 4). Find a simplified

form  $(Ax^2 + Bx + C)^N$  where A, B and C are integers and N is a simplified rational fraction.

(2) Expand and simplify  $(3x + 1)^2(3x - 1)$ 

(3) Find the values of *A*, *B* and *C* such that  $(2x + y)^3 \equiv Ax^3 + Bx^2y + Cxy^2 + y^3$ 

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