2nd November

$(x - 3)$ is a factor of

$x^3 + x^2 - 24x + a$

Work out the value of a

Use Pascal's triangle to expand

$(x + y)^4$

Prove $sin^2x - cos^2x \equiv 1 - 2cos^2x$

Work out the equation of the tangent to the curve $y = (x - 5)(x - 3)$ at the point where $x = -2$