Name: _____ 5-a-day Further Maths

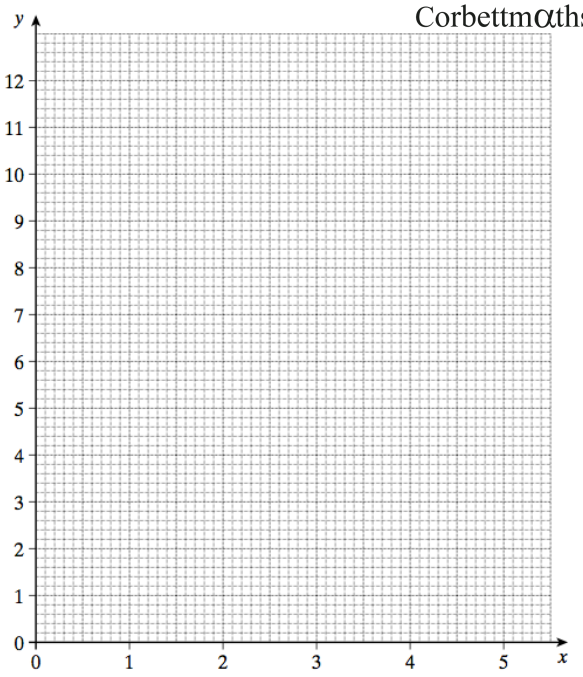
5th February

A function f(x) is defined as

$f(x) = 9 - 3x \qquad 0 \leq x < 2$

$= (5 - x)(x - 1) \qquad 2 \leq x \leq 5$

Draw the graph of $y = f(x)$



$y = (1 - 2x)(3 - 4x)$

Work out $\frac{dy}{dx}$

Prove $\frac{1}{tan\theta} + tan\theta \equiv \frac{1}{cos\theta sin\theta}$