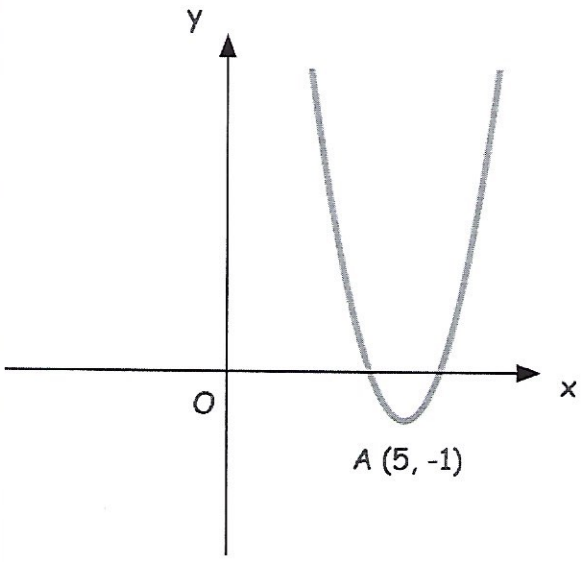
4th May

Corbettmaths



Write down the equation of the tangent at the point A

$y = -1$

Write down the equation of the normal at the point A

$x = 5$

$f(x) = 4x - 1$ $g(x) = x^2$
for all values of x.

Work out the range of $gf(x)$

$(4x-1)^2 \geq 0$

$gf(x) \geq 0$

Work out the coefficient of x^3 in the expansion of $(1+2x)^5$

1
1 1
1 2 1
1 3 3 1
1 4 6 4 1
1 5 10 10 5 1

$10 \times 1^2 \times (2x)^3$

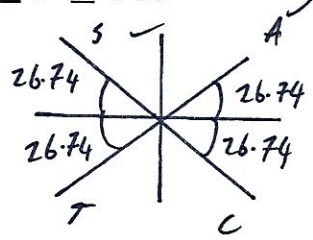
$10 \times 8x^3$

$80x^3$

$=$

80

Solve $sin\theta = 0.45$ for
$0° \leq \theta \leq 360°$



$\sin^{-1} 0.45$
26.74

$\theta = 26.74°, 153.26°$

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