5th September **Higher Plus 5-a-day**

Corbettmaths

Given

$f(x) = \dfrac{2x+1}{3}$

$\dfrac{14+1}{3} = 5$

Calculate the value of

$f(7)$

Find

$f^{-1}(x)$

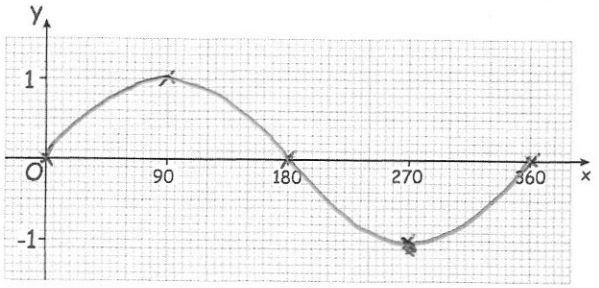
$y = \dfrac{2x+1}{3}$

$3y - 1 = 2x$

$x = \dfrac{3y-1}{2}$

$f^{-1}(x) = \dfrac{3x-1}{2}$

Sketch the graph of y = sin x for $0 \leq x \leq 360$.



Make m the subject of

$\dfrac{4t+c}{3} = \dfrac{m-9}{8-3m}$

$(4t+c)(8-3m) = 3m - 27$

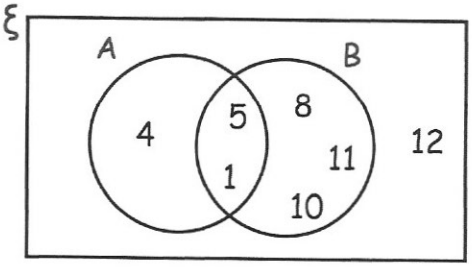
$32t - 12mt + 8c - 3mc = 3m - 27$

$32t + 8c + 27 = 3m + 12mt + 3mc$

$32t + 8c + 27 = m(3 + 12t + 3c)$

$m = \dfrac{32t + 8c + 27}{3 + 12t + 3c}$

$m = \dfrac{32t + 8c + 27}{3(1 + 4t + c)}$



A number is chosen at random.

Write down P (A ∩ B')

$\dfrac{1}{7}$

Write down P (A' ∪ B)

$\dfrac{6}{7}$

Find the probability of A given B

$\dfrac{2}{5}$