

5th September



Corbettmaths

Given

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

Calculate the value of

$$f(7)$$

$$\frac{2 \times 7 + 1}{3} = 5$$

Find $f^{-1}(x)$

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

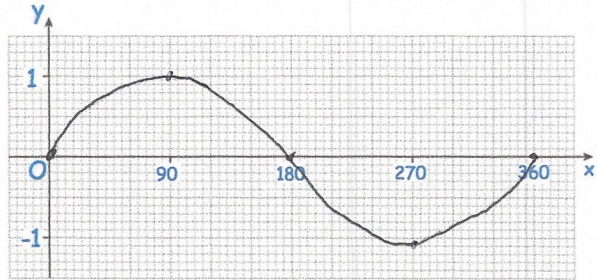
$$3y = 2x+1$$

$$3y-1 = 2x$$

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

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

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



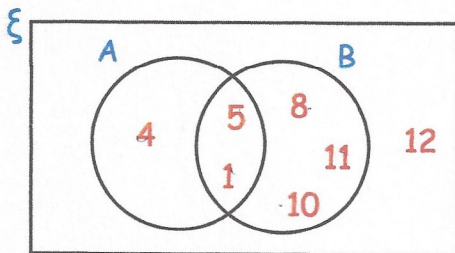
Make m the subject of the formula

$$E = mgh + \frac{1}{2}mv^2$$

$$4E = 4mgh + mv^2$$

$$4E = m(4gh + v^2)$$

$$m = \frac{4E}{4gh + v^2}$$



A number is chosen at random.

(a) Write down $P(A \cap B')$

$$\frac{1}{7}$$

(b) Write down $P(A' \cup B)$

$$\frac{6}{7}$$

(c) Write down $P(A | B)$

$$\frac{2}{5}$$