

22nd March



Corbettmoths

Prove the product of two even numbers is always even

$$(2m) \times (2n)$$

$$= 4mn$$

$$2(2mn) \therefore \text{even.}$$

Given

$$f(x) = \frac{4x+1}{7}$$

$$y = \frac{4x+1}{7}$$

$$x = \frac{7y-1}{4}$$

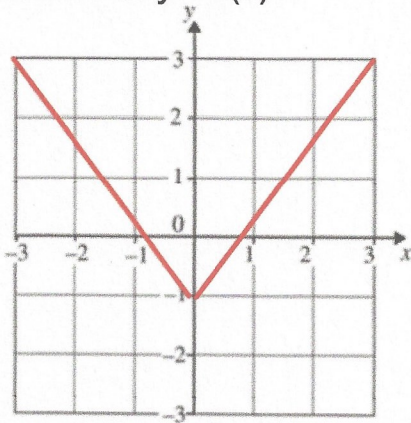
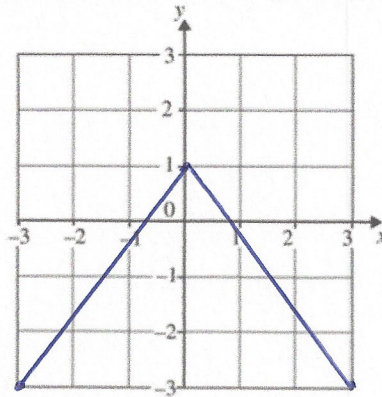
find

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

$$7y = 4x+1$$

$$7y-1 = 4x$$

$$f^{-1}(x) = \frac{7x-1}{4}$$

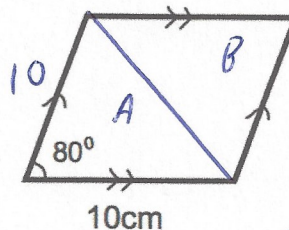
Shown is  $y = f(x)$ Sketch the function  $y = -f(x)$ 

Shown is a rhombus

Calculate its area

$$\frac{1}{2} \times 10 \times 10 \times \sin 80^\circ$$

$$= 49.24 \text{ cm}^2$$



$$\text{Area A} = \text{Area B}$$

$$\text{Total area} = 98.48 \text{ cm}^2$$