

4th May



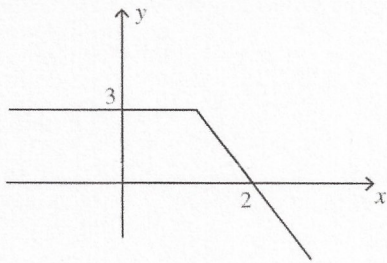
Corbettmaths

The curve with equation  $-f(x)$

$y = x^2 - 2x - 24$  is reflected in the x-axis

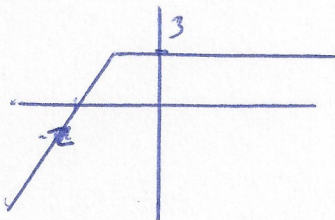
Write the equation of the reflected curve

$$y = -x^2 + 2x + 24$$

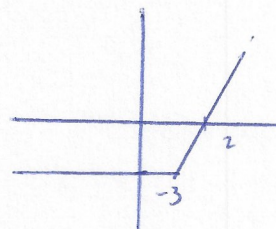


Shown is  $y = f(x)$

Sketch  $y = f(-x)$



Sketch  $y = -f(x)$



Given

$$f(x) = 5x - 3$$

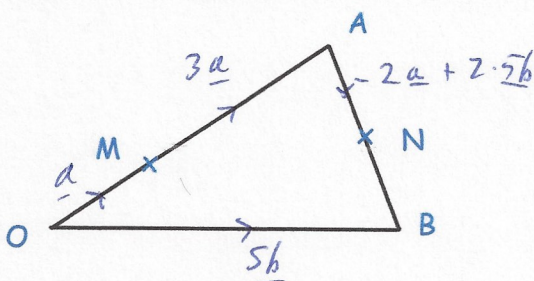
$$g(x) = 2x + 1$$

$$g(-1) = 2(-1) + 1 = -1$$

$$f(-1) = (5(-1)) - 3 = -8$$

Find

$$fg(-1) = -8$$



$$\vec{OA} = 4a \quad \vec{AB} = -4a + 5b$$

$$\vec{OB} = 5b \quad \vec{AN} = -2a + 2.5b$$

OM:MA = 1:3 and N is the midpoint of AB

$$\begin{aligned} \text{Find } \vec{MN} &= \vec{MA} + \vec{AN} \\ &= 3a + (-2a + 2.5b) \end{aligned}$$

$$= a + 2.5b$$