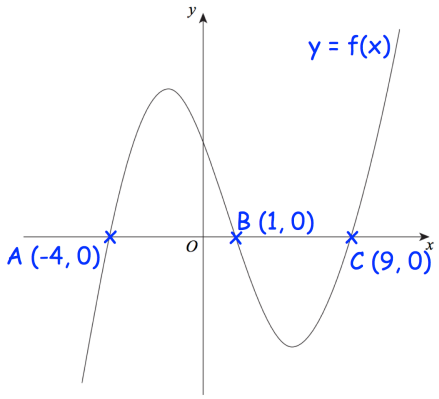
Name: _____ 5-a-day Higher Plus

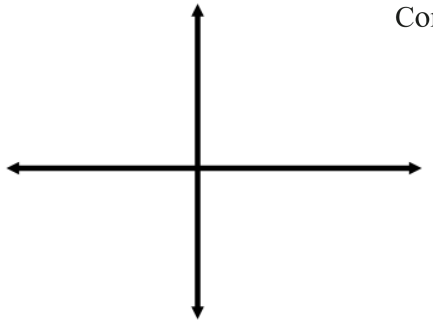
3rd August

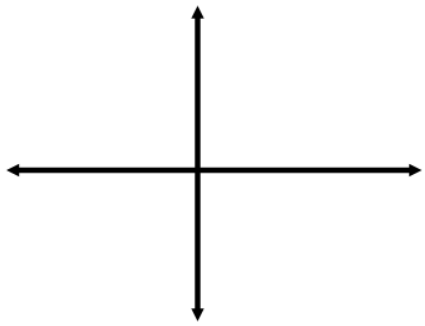
Corbettmaths

Shown is the graph y = f(x)



Sketch
(a) y = f(–x) (b) y = f(x + 3)

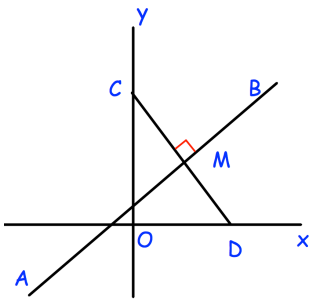




For all values of x

$f(x) = x^2 + 5$
$g(x) = x - 4$

Solve
$fg(x) = gf(x)$



Shown are the straight lines AB and CD.
M is the midpoint of CD
AB is perpendicular to CD and passes through the point M
C is the point (0, 12) and D is the point (6, 0)

Find the equation of AB

B is the point (11, 10)
AM:MB = 5:2

Find the coordinates of the point A