

6th January



Corbettmaths

Solve the simultaneous equations

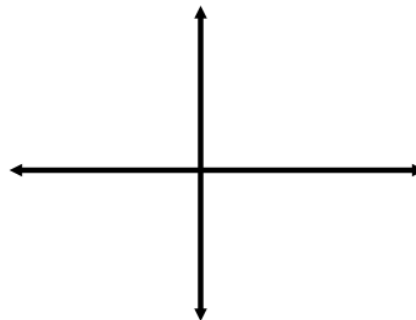
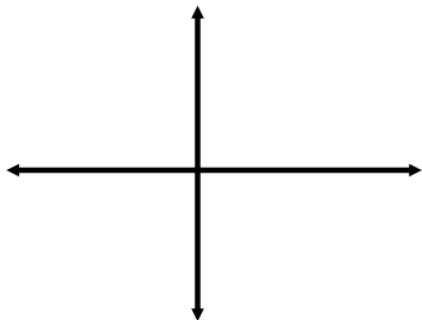
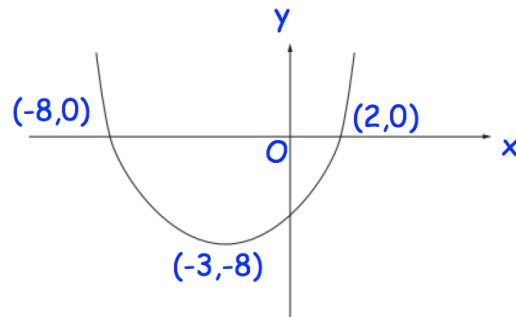
$$2y - x + 3 = 0$$

$$x^2 + xy = 0$$

Shown is a sketch of the graph
 $y = f(x)$.

- (a) Sketch $-f(x)$
 (b) Sketch $f(x + 1)$

Label known coordinates



The line l_1 has equation $y = 4x - 10$.
 The line l_2 has equation $x + y = 20$

The lines l_1 and l_2 intersect at the point
 C.

The lines l_1 and l_2 cross the line $y = 2$
 at the points A and B.

Find the area of triangle ABC.

A circle has equation

$$x^2 + y^2 = 100$$

Find the equation of the tangent to
 the circle at the point (6, 8)