

**29th April**

Corbettmaths

Line L1 has equation  $y = 7x - 2$   
Line L2 has equation  $2x + 4y - 10 = 0$

The lines intersect at the point P

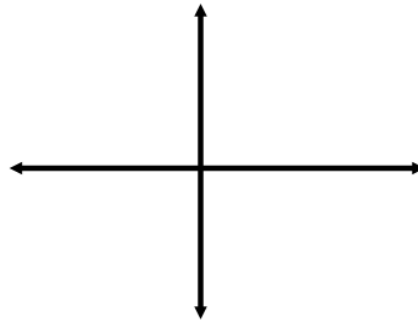
The lines L1 and L2 cross the line  $y = 2$  at the points A and B respectively

Find the area of triangle ABP.

Given

$$f(x) = \frac{1}{x}$$

Sketch  $y = f(x) - 2$  and state the equations of the asymptotes



Find the coordinates of the point where  $y = f(x) - 2$  crosses a coordinate axis.

In an arithmetic progression, the sum of the first ten terms is 1475.  
The sum of the next ten terms is 1975.

Find a and d.