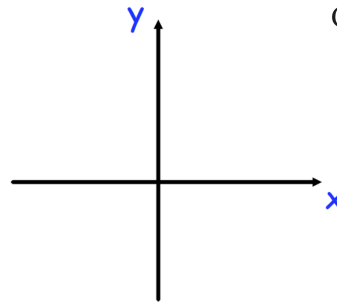


**11th April**

Corbettmaths

Sketch the graph of  
 $y = 3x^2 + 5x + 2$ clearly show the coordinates of any points  
of intersection with the axes.Find where the matrix  $\begin{pmatrix} 5 & 4 \\ 2 & -5 \end{pmatrix}$  maps  
the point  $(3, -2)$ 

Solve

$$y^{-\frac{1}{3}} + 1 = \frac{3}{5}$$

Work out the values of  $x$  between  
 $0^\circ$  and  $360^\circ$  for which

$$\cos^2 x - 3\sin^2 x = 0$$