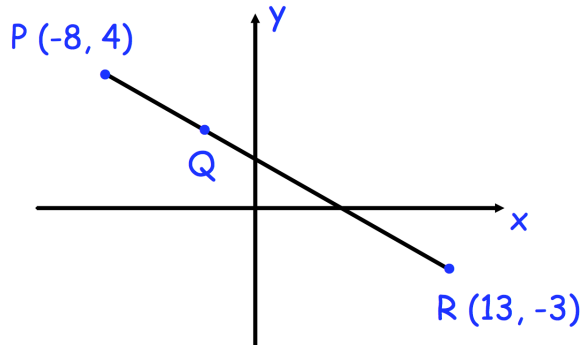


31st July

Corbettmaths

$f(x) = (2 - x)(x + 6)$ for all values of x

Write down the range of $f(x)$



PQR is a straight line.
PQ : QR is 1 : 2

Find the coordinates of the point Q

The line PQR is extended to the point S, such that PR:PS = 7 : 9

Find the coordinates of the point S.

The coefficient of x^2 in the expansion of $(2 + ax)^4$ is 600.

Find the possible values of a .

For what values of x is $y = x^2 + x - 56$ an increasing function?