Corbettmαths

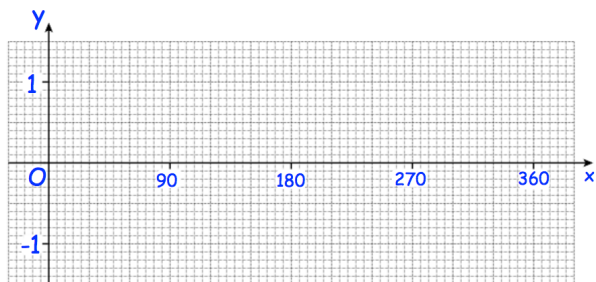|	
The line l_1 has equation $2x + 3y + 5 = 0$ The line l_2 has equation $y = 8x - 10$ The line l_1 crosses the x-axis at the point A. The line l_2 crosses the y-axis at the point B.	Find the distance AB.
x is directly proportional to w^2 When w = 4, x = 48 y is inversely proportional to x^3 When x = 2, y = 14 Find a formula for y in terms of w. Give your answer in its simplest form.	
f(x) = sin x g(x) = x − 90 Draw y = fg(x)	
The width of a rectangular field is x metres. The length of the field is 30m longer than the width. The perimeter of the field is less than 500m. The area of the field is greater than 4000m². By writing suitable inequalities, find the possible values of x	