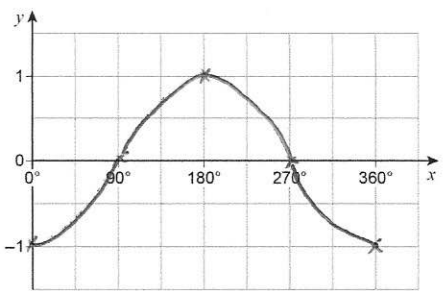
 Corbettmaths	
30th June	
Evaluate $\left(1 \frac{11}{25}\right)^{-\frac{1}{2}}$	$\frac{5}{6}$
The line l_1 has equation $2x + 3y + 5 = 0$ The line l_2 has equation $y = 8x - 10$ The line l_1 crosses the x-axis at the point A. $(-2.5, 0)$ The line l_2 crosses the y-axis at the point B. $(0, -10)$	Find the distance AB. $\sqrt{2.5^2 + 10^2}$ $= 10.3$
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.	$x = kw^2$ $48 = k \times 16$ $k = 3$ $x = 3w^2$ $y = \frac{k}{x^3}$ $14 = \frac{k}{8}$ $k = 112$ $y = \frac{112}{x^3}$ $y = \frac{112}{(3w^2)^3}$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $y = \frac{112}{27w^6}$ </div>
$f(x) = \sin x$ $g(x) = x - 90$ Draw $y = fg(x)$	
There are n counters in a bag. Two counters are white and the rest are green. $n-2$ Two counters are taken from the bag at random.	Find the probability, in terms of n, that both counters are green. $\frac{n-2}{n} \times \frac{n-3}{n-1} = \frac{(n-2)(n-3)}{n(n-1)}$ or $\frac{n^2 - 5n + 6}{n^2 - n}$