



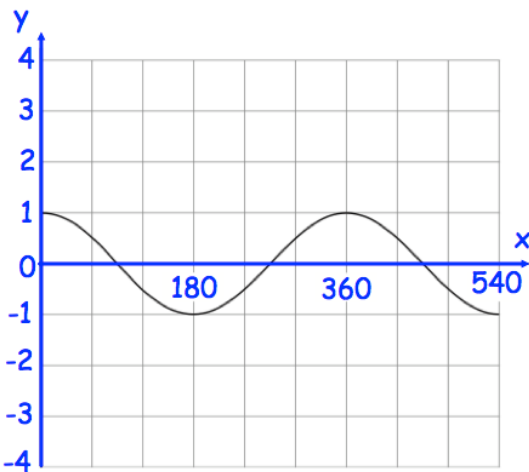
A circle has equation $x^2 + y^2 = 225$

Work out the circumference of the circle.

HJK is a straight line where $HJ:JK = 2:3$

The coordinates of H are $(-4, 8)$ and the coordinates of J are $(5, -1)$

Work out the coordinates of the point K

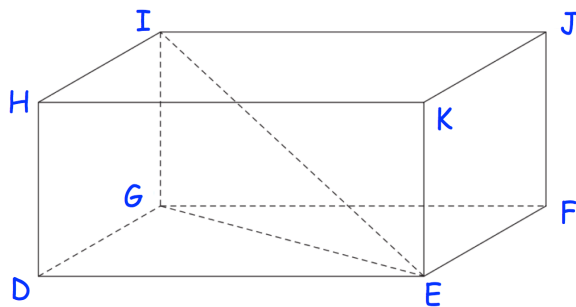


Shown is the graph of $y = \cos(x)$

Write down the exact value of $\cos(135)$

On the same graph draw

$$y = 1 - \cos(x)$$



$DE = 20\text{cm}$ $EF = 9\text{cm}$ $GI = 7\text{cm}$

Calculate angle GEI