

10th December

Corbettmaths

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

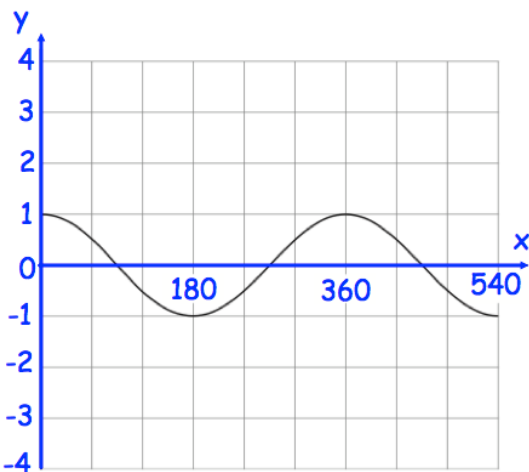
The coordinates of H are $(-4, 8)$
 and the coordinates of J are $(5, -1)$

Work out the coordinates
 of the point K

Prove that

$$(2n + 1)^2 - (2n - 1)$$

is an even number for all positive
 integer values of n.

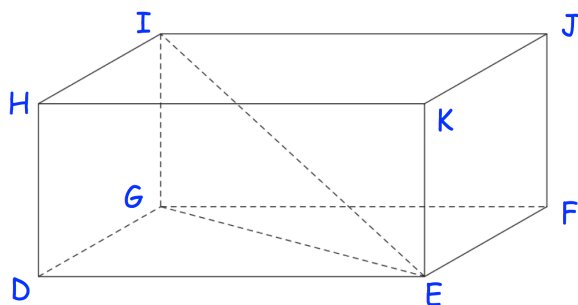


Shown is the graph of $y = \cos(x)$

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

On the same graph draw

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



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

Calculate angle GEI