



m is inversely proportional to x^2

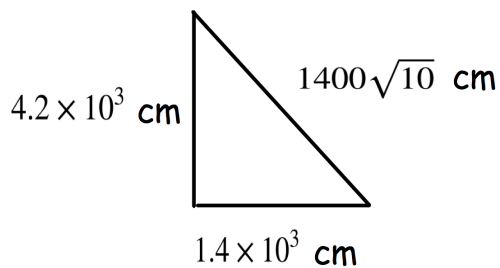
when $m = 3$, $x = 5$

Find the value of m when $m = x$

Solve the simultaneous equations

$$x + y = 10$$

$$y = 2x^2 + 4$$



Is the triangle shown a right angle triangle?

The lengths of the sides of a triangle are in the ratio 5:6:9

Calculate the size of the smallest angle.

The point M has coordinates $(1, \sqrt{2})$

The point N has coordinates $(\sqrt{2}, 3)$

Find the gradient of MN in the form $a + b\sqrt{2}$