Answer on Question#54405 – Math – Analytic Geometry

## 1.192

## Question

What is the gradient of a line that has an angle of inclination of 50°?

Enter your answer, rounded to 4 significant figures.

## Solution

From definition  $k(gradient) = \frac{\Delta y}{\Delta x}$ 

From trigonometry  $tan(\theta) = \frac{\Delta y}{\Delta x}$ 

Therefore,  $k = \tan(\theta) = \tan(50^\circ) \approx 1.192$