## Answer on Question\#54405 - Math - Analytic Geometry

 1.192
## Question

What is the gradient of a line that has an angle of inclination of $50^{\circ}$ ?
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, $k=\tan (\theta)=\tan \left(50^{\circ}\right) \approx 1.192$

