

## Answer on Question #60406 – Math – Analytic Geometry

### Question

Find the gradient of the straight line that passes through the points  $(5, -3)$  and  $(-2, 4)$ .

### Solution

The gradient of the linear function in one variable is equal to  $k = \tan \varphi$ , where  $\varphi$  is the angle between the given line and the positive direction of the x-axis.

In this problem

$$k = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 + 3}{-2 - 5} = -1.$$

**Answer:**  $-1$ .