

## Answer on Question #82531 – Math – Algebra

### Question

Which is the slope of the line that passes through the points (4,2) and (6,7)?

### Solution

The equation of line is  $y = kx + l$ , where  $k$  is the slope of the line.

If the line passes through the points, then

$$k = \frac{y_2 - y_1}{x_2 - x_1}$$

where  $(x_1, y_1) = (4, 2)$ ,  $(x_2, y_2) = (6, 7)$ .

Substitute:

$$k = \frac{7 - 2}{6 - 4} = \frac{5}{2} = 2.5$$

**Answer:** 2.5.