Name _____ Date _____

Length of line segment - Step-by-Step Lesson

Find the length of the line segment whose endpoints are:

(8, 5) and (4, -3)

Explanation:

We can use the distance formula to determine the length of this line:

d = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Plug in our numbers:

d = $\sqrt{(4 - 8)^2 + \{(-3) - 5\}^2}$

d = $\sqrt{(4)^2 + (8)^2}$

d = $\sqrt{16 + 64}$

d = $\sqrt{80}$

d = 8.9

So, the answer is 8.9