

6. (7 points) Compute the distance between the following two points: (3, 5) and (-1, 6). Clearly indicate the steps involved in your solution (or lose points).

$$\begin{aligned}d((3, 5), (-1, 6)) &= \sqrt{(6-5)^2 + (-1-3)^2} \\&= \sqrt{1^2 + (-4)^2} \\&= \sqrt{1+16} \\&= \sqrt{17}\end{aligned}$$

7. (7 points) Find the midpoint between the following two points: (1, 1) and (3, 5). Clearly indicate the steps involved in your solution (or lose points).

$$\begin{aligned}M((1, 1), (3, 5)) &= \left(\frac{1+3}{2}, \frac{1+5}{2} \right) \\&= (2, 3)\end{aligned}$$

8. (7 points) Using two points on the graph and the slope formula, find the slope of the following equation: $y = 7x + 3$. Clearly indicate the steps involved in your solution (or lose points).

two points: (0, 3)

SEE EXAM 3