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| **TODAY’S AGENDA**  **LEARNING GOAL**: I will solve problems involving the length of a line segment.  **HW: p.77 #2ac, 4, 5a, 6, 8, 10, 15abcd, and 20** |

**PART 1 – WARM UP**

**1) a) Find the equation of the line in STANDARD and y\_intercept slope form if it passes through points A (5,-3) and B (7, 1).**

**b) Plot the points A and B on a Cartesian plane and connect them with a line (NOTE: DO NOT EXTEND BEYOND THE POINTS.)**

**Solution**

In general, the distance between  and  is:



Use this formula to find the length of a line segment.

**Ex 2**: Find the length of the line segment D(-3, 5) and E(4,-6)