Comparative Questions:

Slope

1.   What is the slope of the line that passes through the points (2, 3) and (5, 7)?

   A $-\dfrac{4}{3}$ B $-\dfrac{3}{4}$ C $\dfrac{3}{4}$ D $\dfrac{4}{3}$

2.   Write a linear equation that is parallel to the given line $3x + 2y = 24$.

3.   Access ramps must be built to meet specifications with regard to slope. Federal regulations states that for every 12 inches along the base of the ramp, the height cannot rise more than 1 inch. Design an access ramp for a doctor's office that meets Federal regulations and extends no more than 108 inches. Include your solution and a scaled diagram to illustrate your design. Explain how your access ramp will meet Federal regulations.