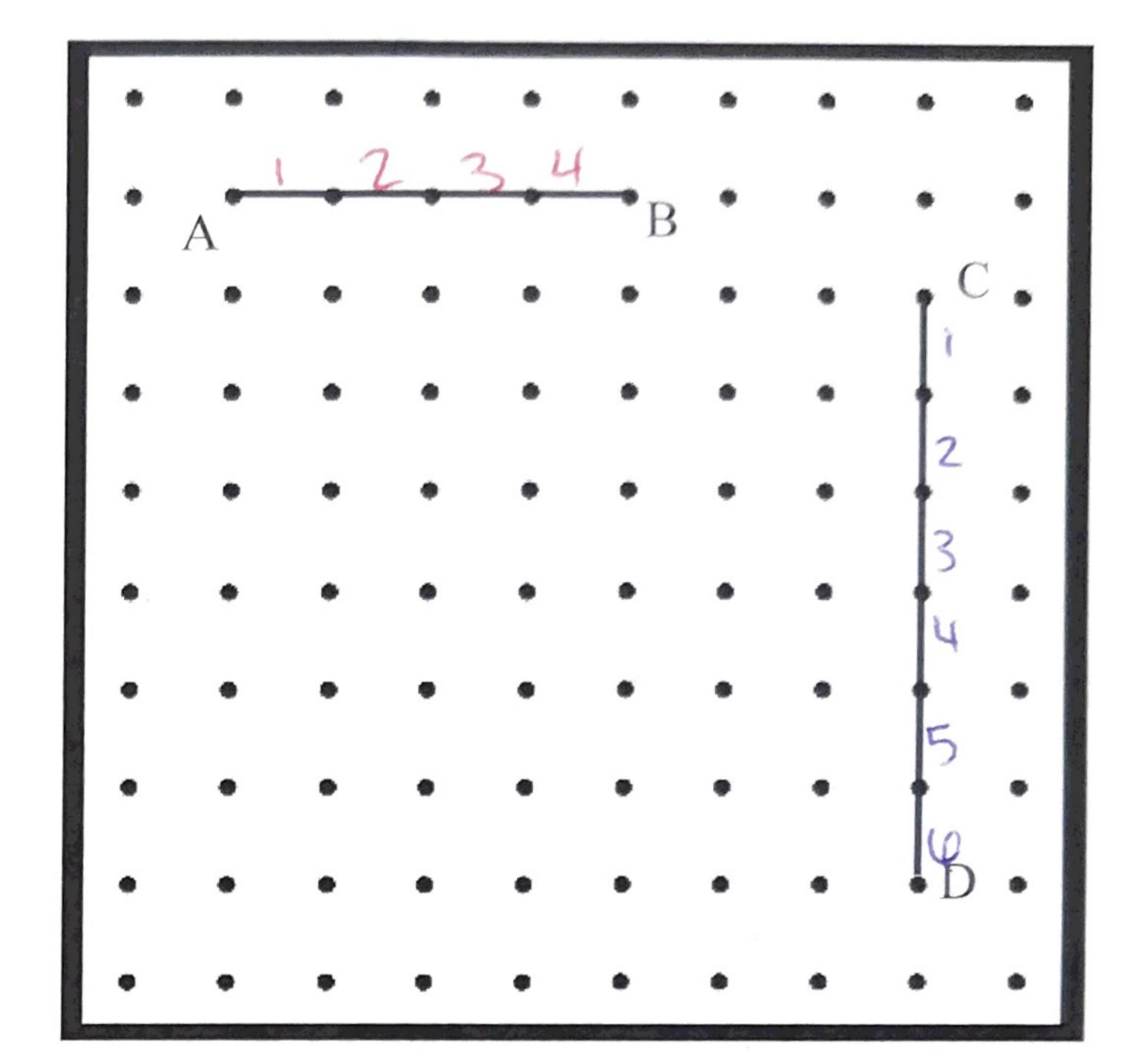
Unit 4A: Day 9: Finding Distance on the Coordinate Plane

Focus Question: How do I find the length of a slanted segment?

Vertical and Horizontal lines

- What type of line is segment AB? HoriZ. (constand)
- What is the slope of segment AB? W= D
- 3. What is the length of segment AB?
- 4. What type of line is segment CD? Vertical
- 5. What is the slope of segment CD? M^{-}
- 6. What is the length of segment CD?
- 7. Is length the same thing as slope? No



B. Slanted lines

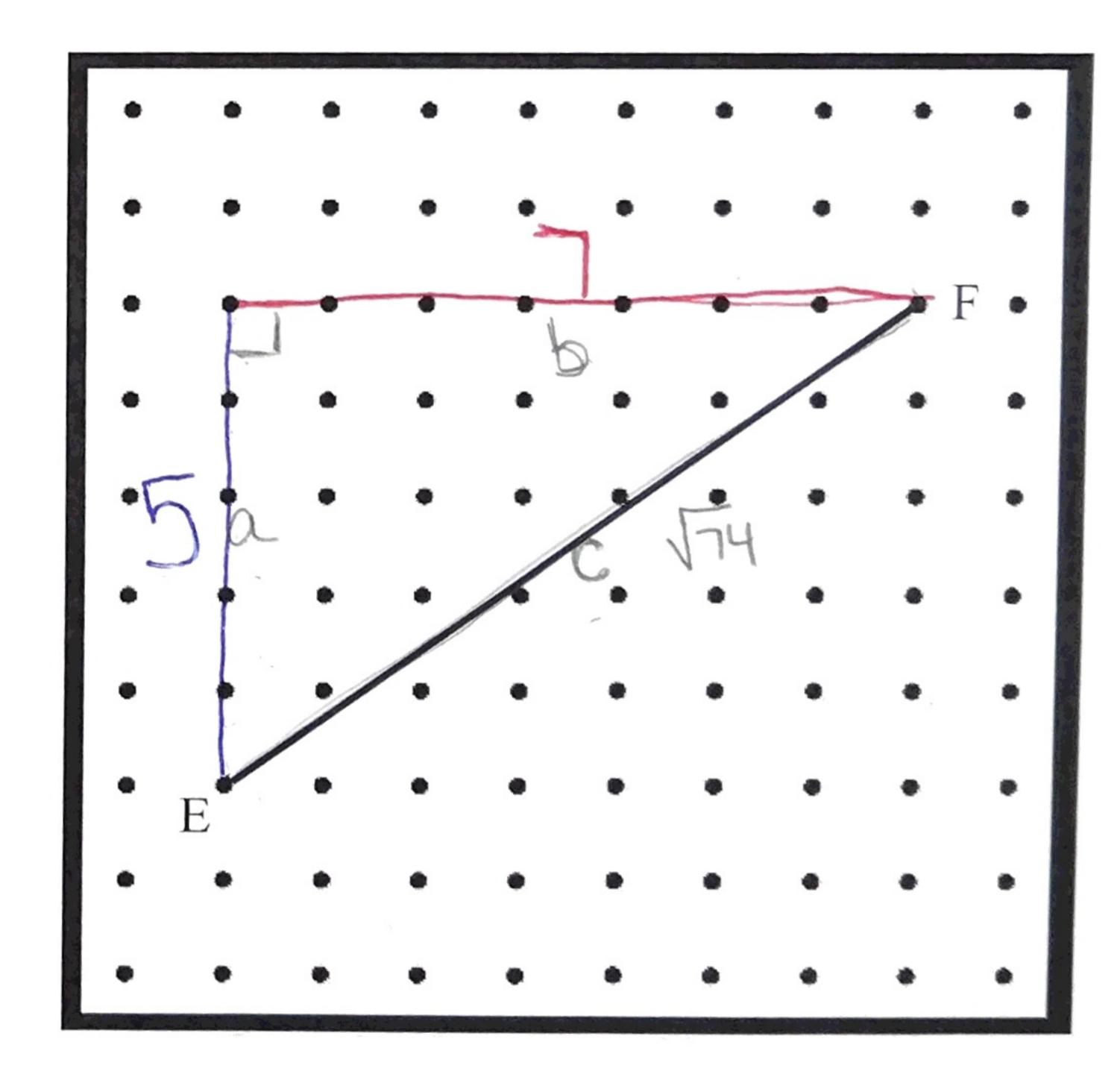
Can you count to find the length of segment EF? Explain.

Noble You can only count horiz & vertical

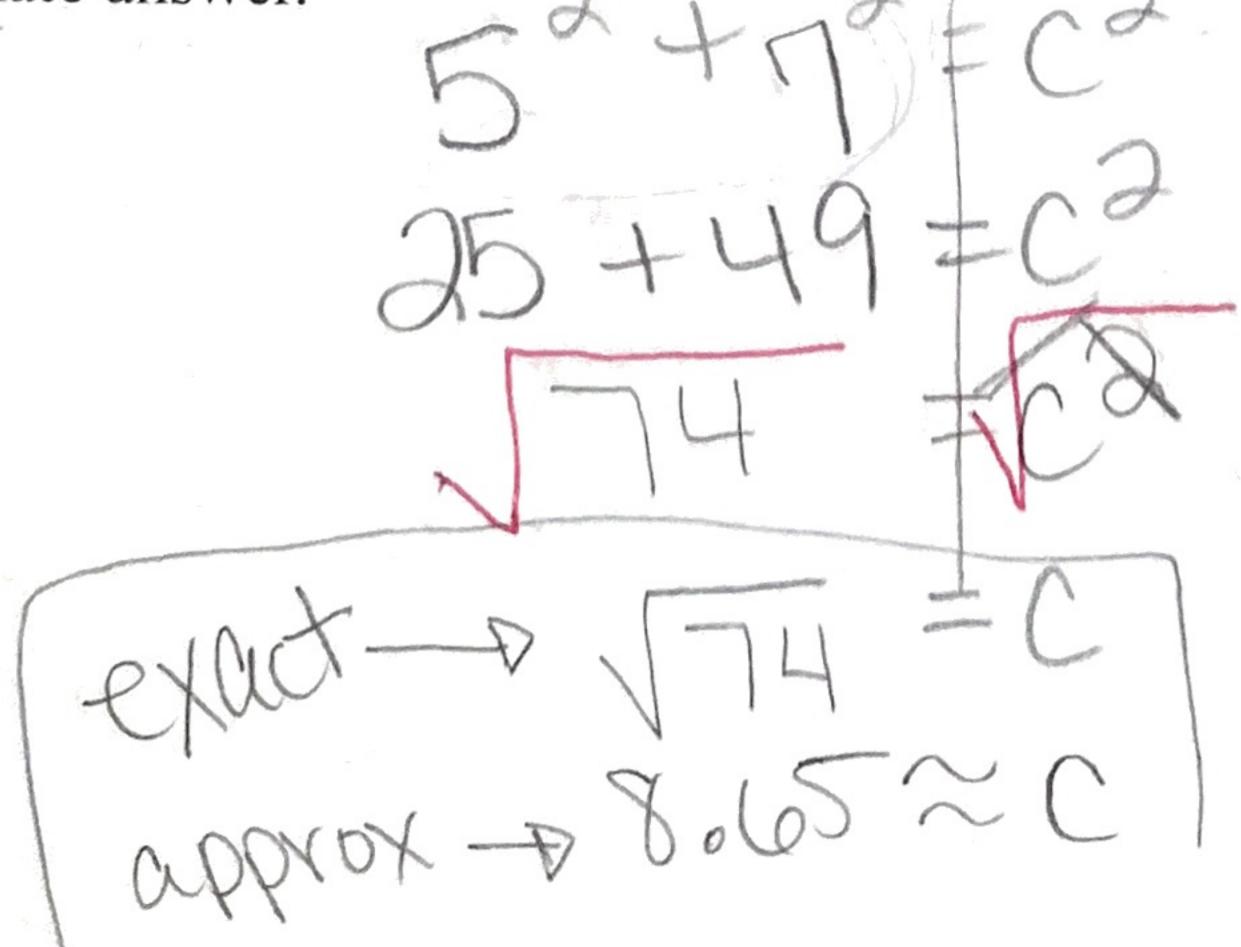
2. What is the slope of segment EF?

3. When you drew your stair, what type of triangle was created?

4. What did we learn about the length of the sides of right triangles? \alpha \dip + \backslash \alpha \dip =



5. Label the triangle with a, b, and c. Then, find the length of segment EF. Give an exact and approximate answer.



C. Distance on the coordinate plane.

Plot the two given points, then find the distance between them. Give an exact and approximate answer.

(-1, 1) and (2, 5)

