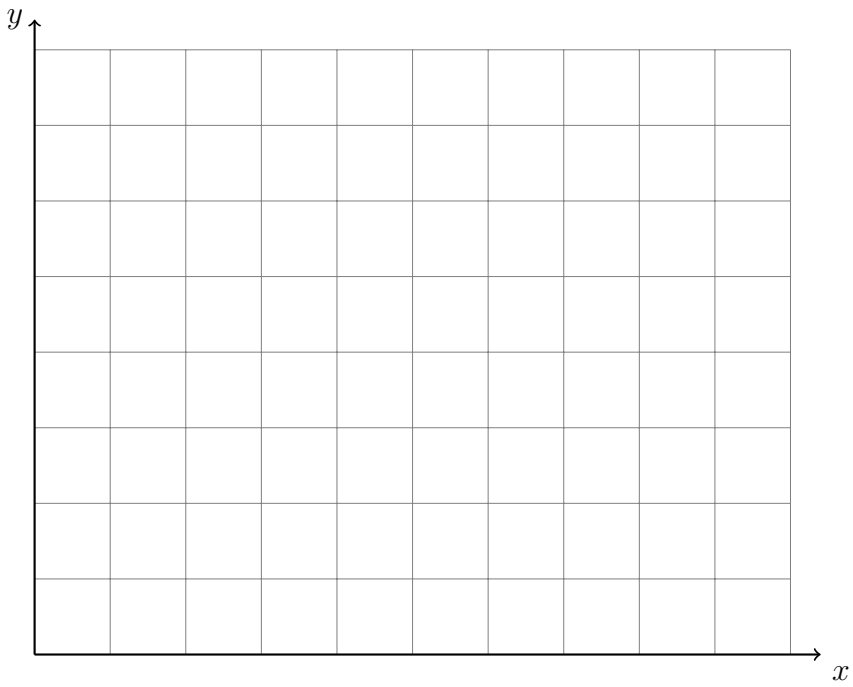
7.3b Do Now: Slope and the tangent function, similar triangles

1. (a) Graph and label $\triangle ABC$ with $A(0,0)$, $B(7,4)$, and $C(7,0)$.



(b) Find the lengths of the sides of $\triangle ABC$.

$AC =$ $BC =$ $AB = \sqrt{AC^2 + BC^2}$

(c) Find the slope and y-intercept of the line $\overleftrightarrow{AB}$.

$m_{AB} =$ $b_{AB} =$

(d) Write down the equation of each line.

$\overleftrightarrow{AB}$: $\overleftrightarrow{BC}$: $\overleftrightarrow{AC}$:

(e) Find the measure of $\angle BAC$ in degrees with a protractor.