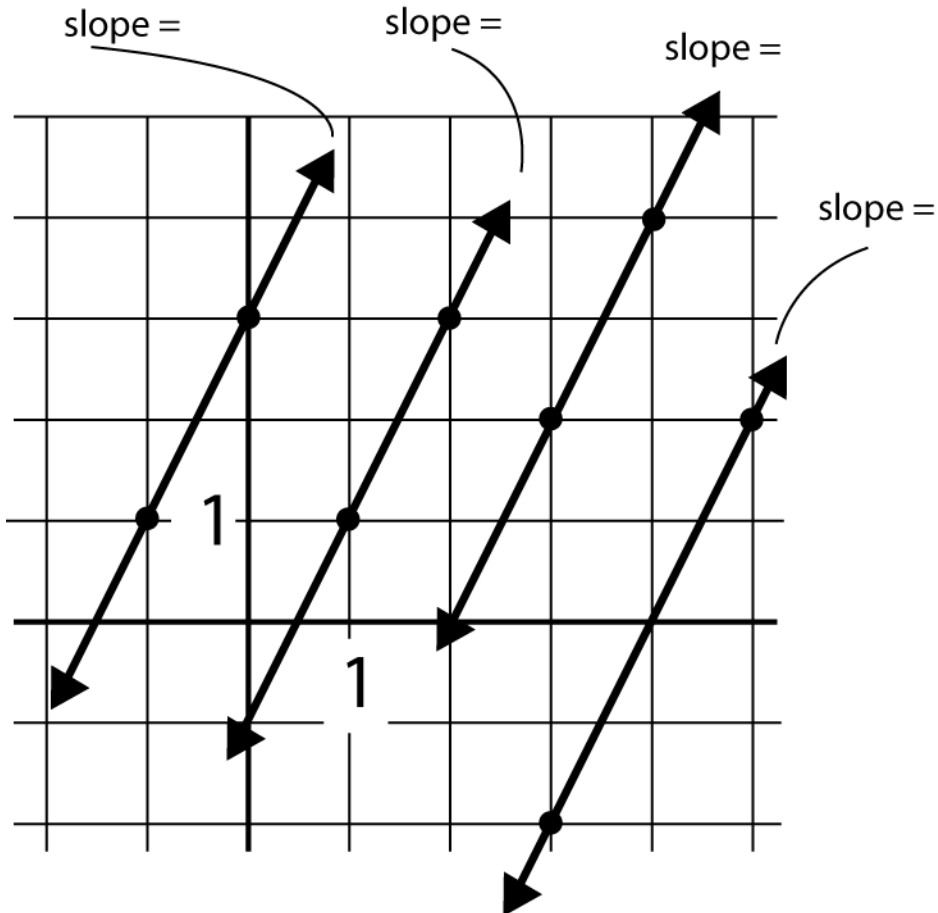


Parallel and perpendicular lines

NAME:

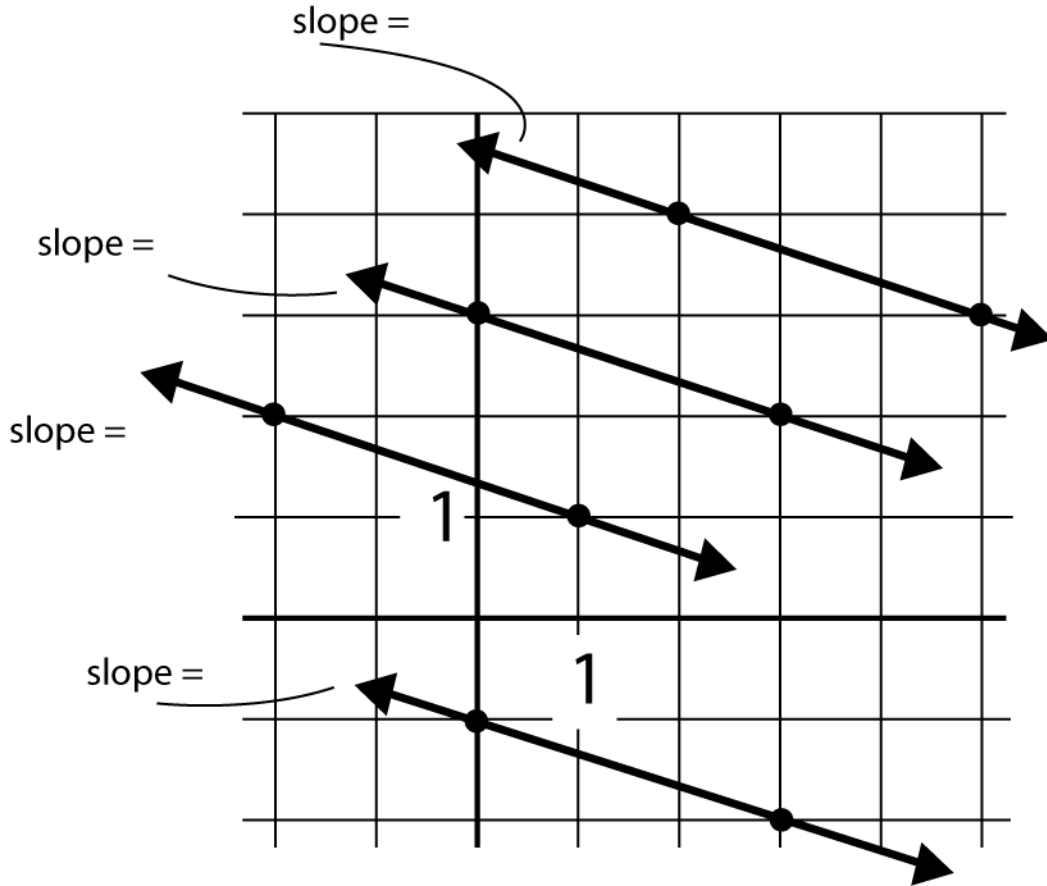
Each line drawn below has two points marked on it. Find the slopes of each line by figuring $\frac{\text{rise}}{\text{run}}$ by counting boxes up (or down) and left (or right) to get from one point to the next. Do not use the formula for slope. Record your answers in the spaces provided.



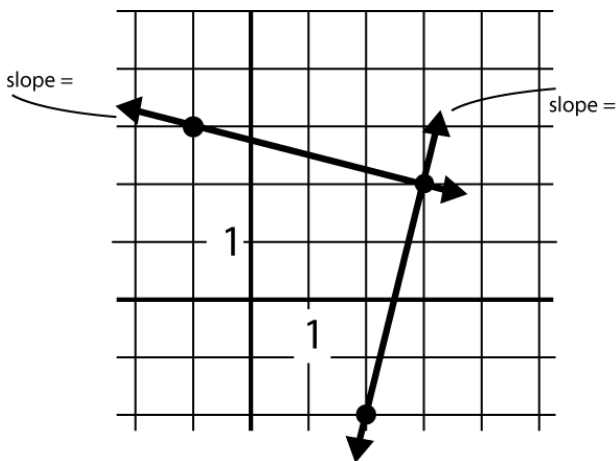
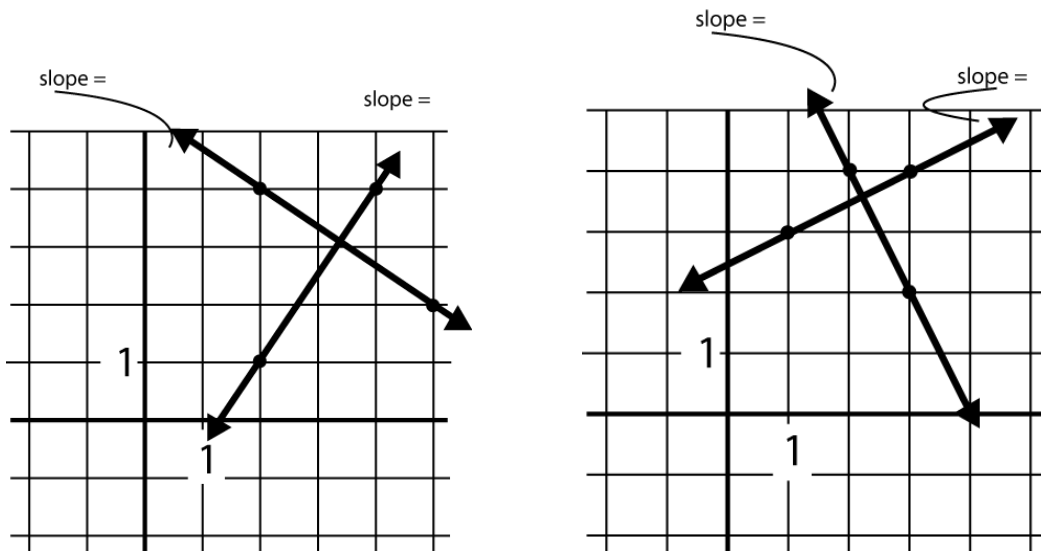
Notice all of these lines are parallel (slanted the same way). What is true of the slopes? From what we have seen here, what can you say about the slope of parallel lines?

Does your result make sense if you think of slope as how slanted a line is? Why?

The lines drawn below are also parallel but have negative slopes. Does your conclusion from page 1 hold for these lines? Fill in the slopes of the lines to find out.



The following pairs of lines are perpendicular, meaning they meet at a right angle (90 degrees). Find and record the slopes of all of the lines.



What is true of the slopes? From what we have seen here, what can you say about the slopes of perpendicular lines?