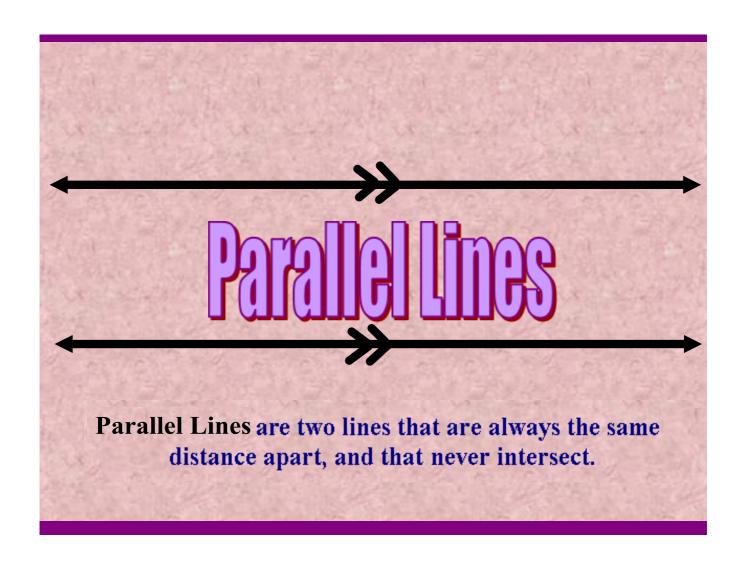


Parallel & Perpendicular Lines

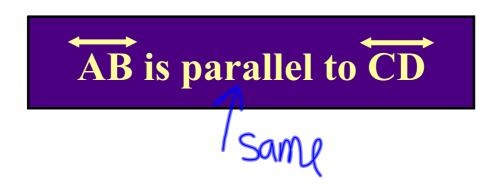


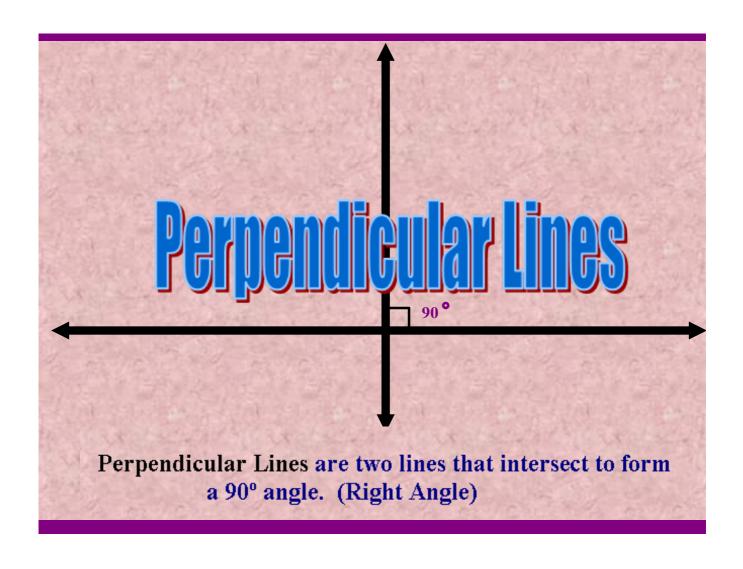


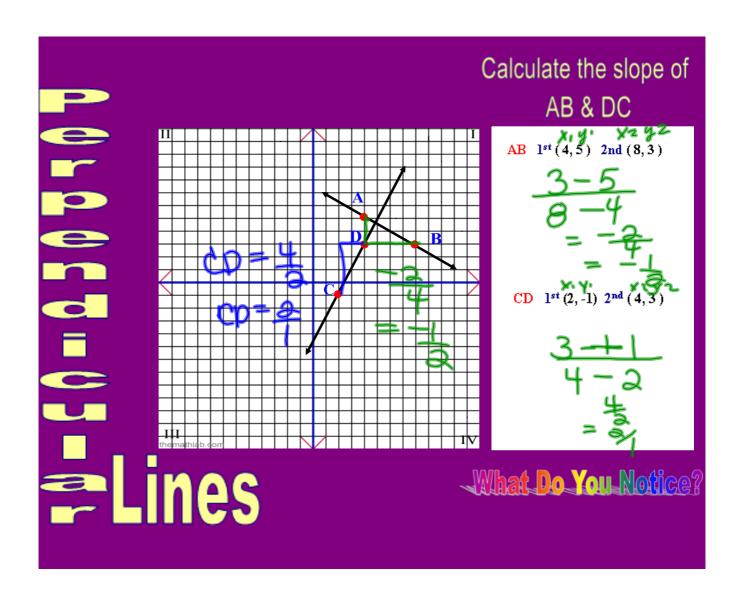


Parallel Slopes are Equal

Slope of AB = **Slope of CD**, therefore







Therefore if the slopes of two lines are

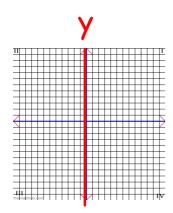
OPPOSITE RECIPROCALS

we can say the lines are perpendicular

3 4>-2 2

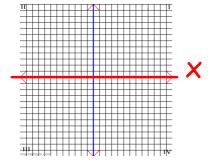
Therefore AB is perpendicular to DC

What is the slope of the y-axis?

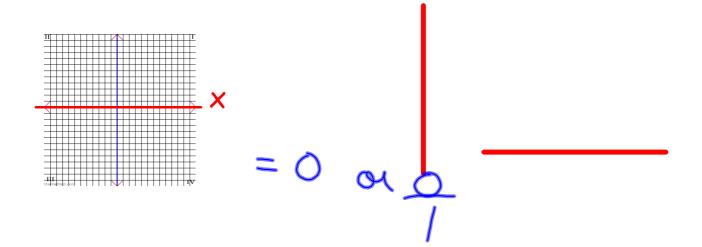


Undefined or 0

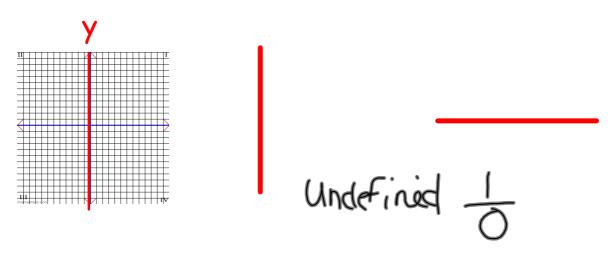
What is the slope of the x-axis?



What is the slope parallel to the x -axis?



What is the slope <u>parallel</u> to the y-axis?

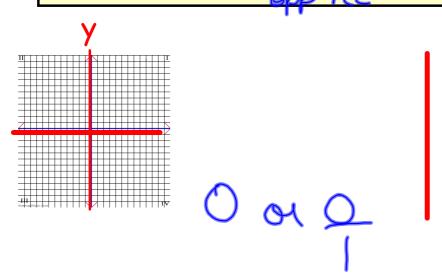


What is the slope perpendicular to the x -axis?

Opp rec.

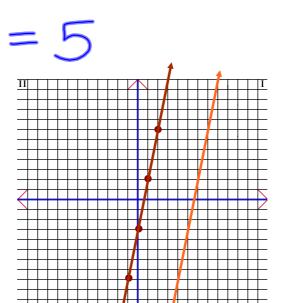


What is the slope perpendicular to the y-axis?



State the slope parallel to y = 5x - 3.

Same $y = m \times + b$



State the slope perpendicular to
$$y = 4/5x - 3$$

Opp rec $m = 4/5$

State the slope perpendicular to
$$y = -2/3x - 4$$

Opp rec.

 $m = -2/3$

State the slope perpendicular to
$$y = -2x + 8$$

$$m = -2$$

$$= 1$$

Determine whether or not the following figure is a rectangle.

