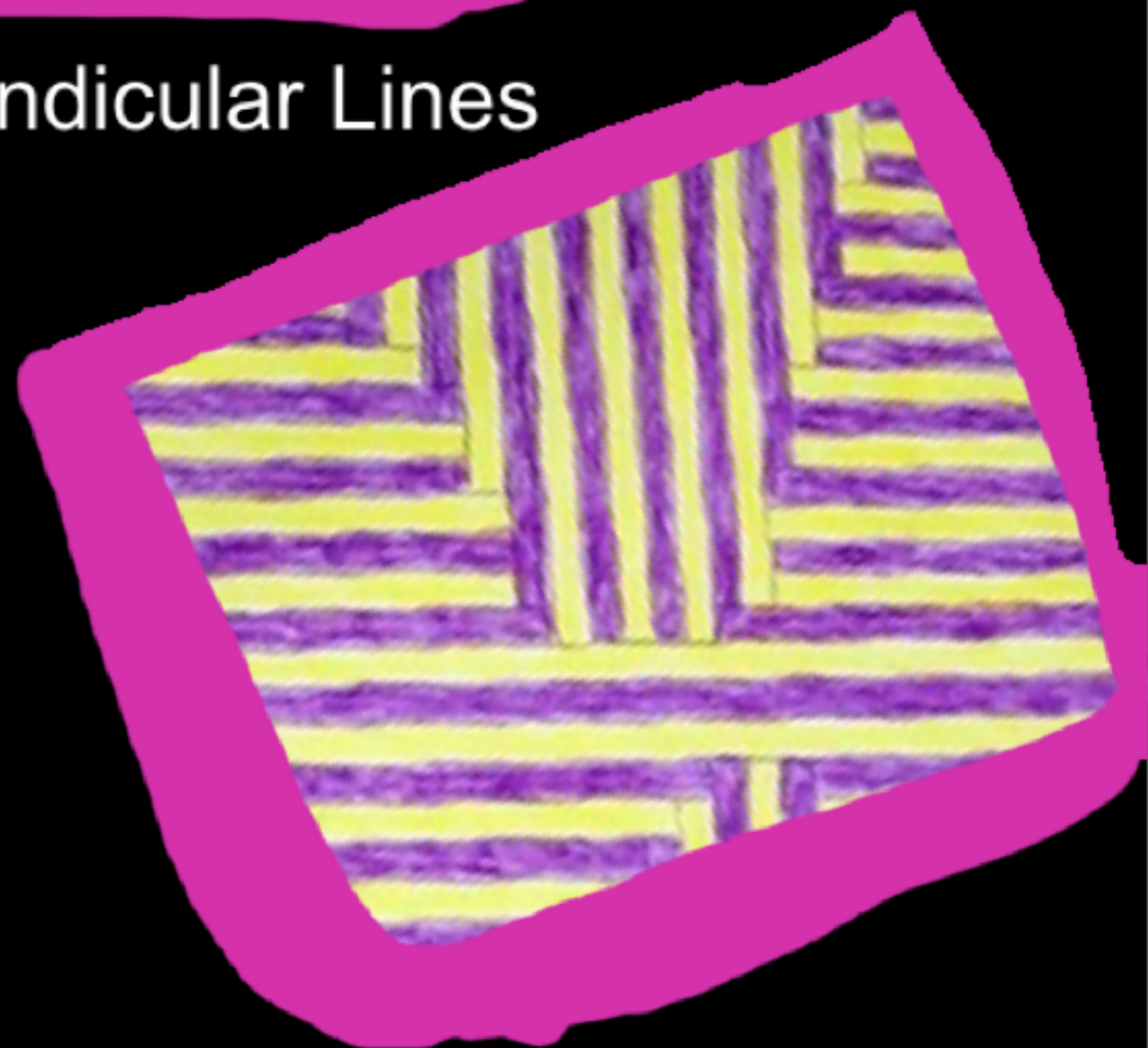
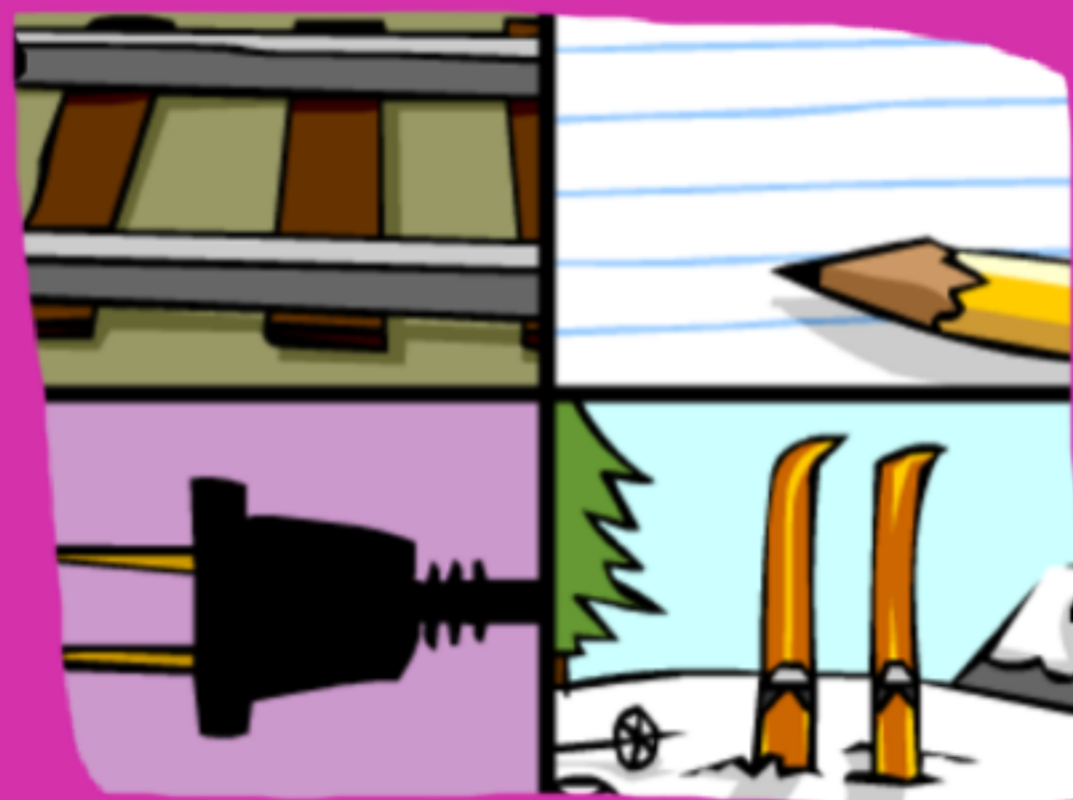




# Parallel & Perpendicular Lines



Parallel lines  
have the same  
slopes!



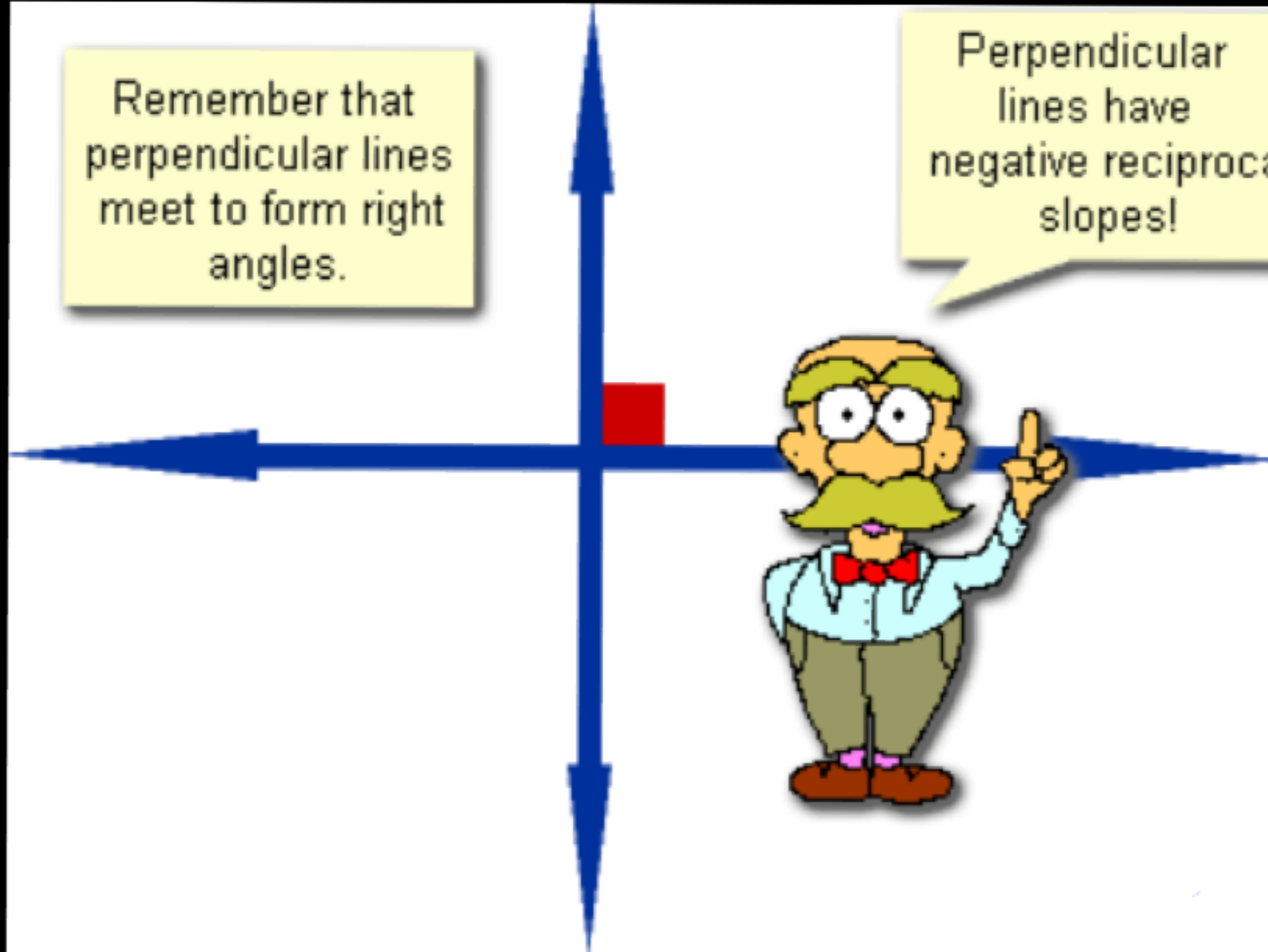
Remember that  
parallel lines  
never intersect.


$$y = \frac{2}{3}x + 2$$

$$y = \frac{2}{3}x - 1$$

Remember that perpendicular lines meet to form right angles.

Perpendicular lines have negative reciprocal slopes!



$$\frac{2}{3}$$

$$-\frac{3}{2}$$

$$-5$$

$$\frac{1}{5}$$

$$\frac{1}{7}$$

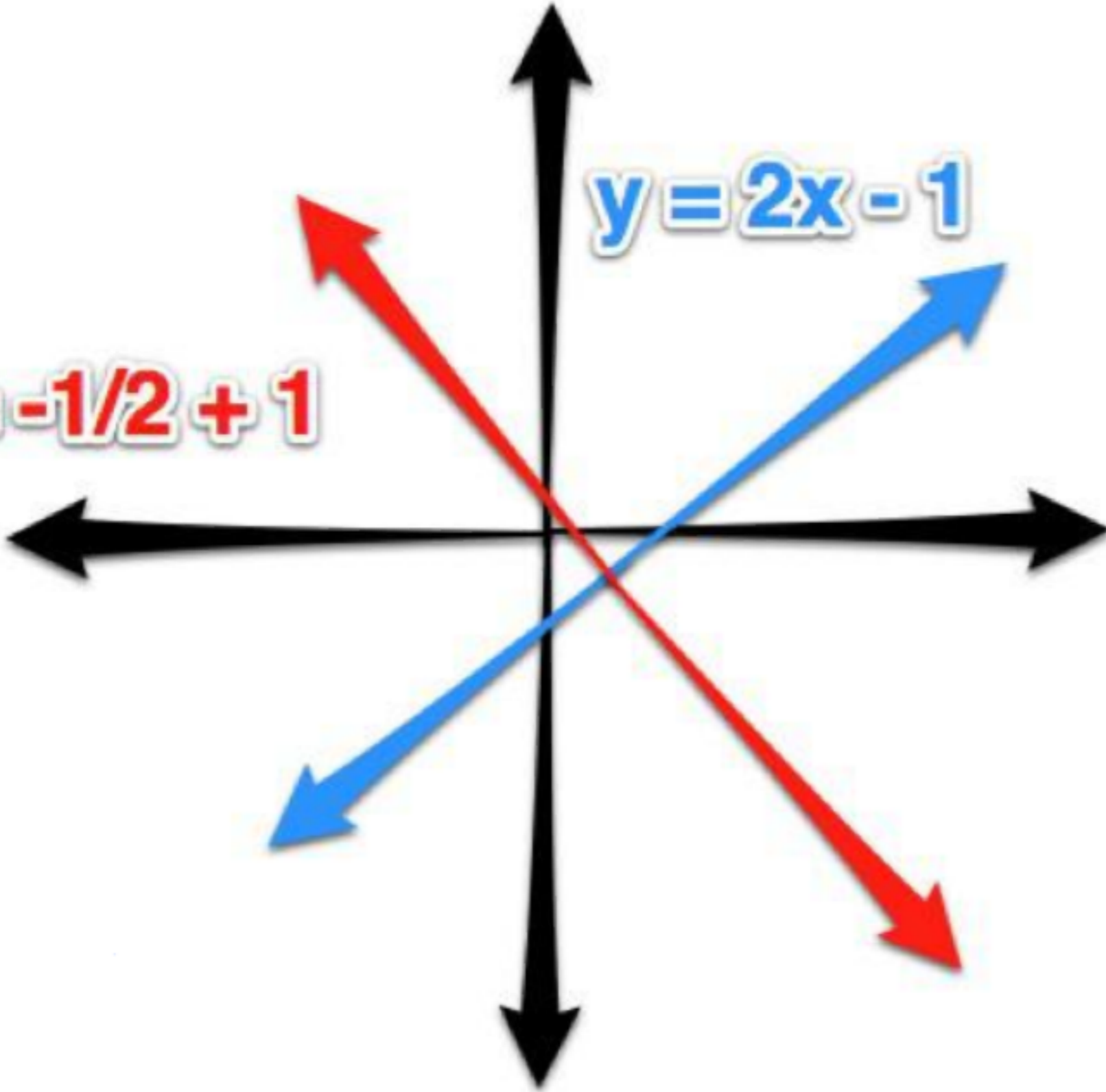
$$-7$$

$$4$$

$$-\frac{1}{4}$$

$$y = -1/2 + 1$$

$$y = 2x - 1$$





## Parallel or Perpendicular?

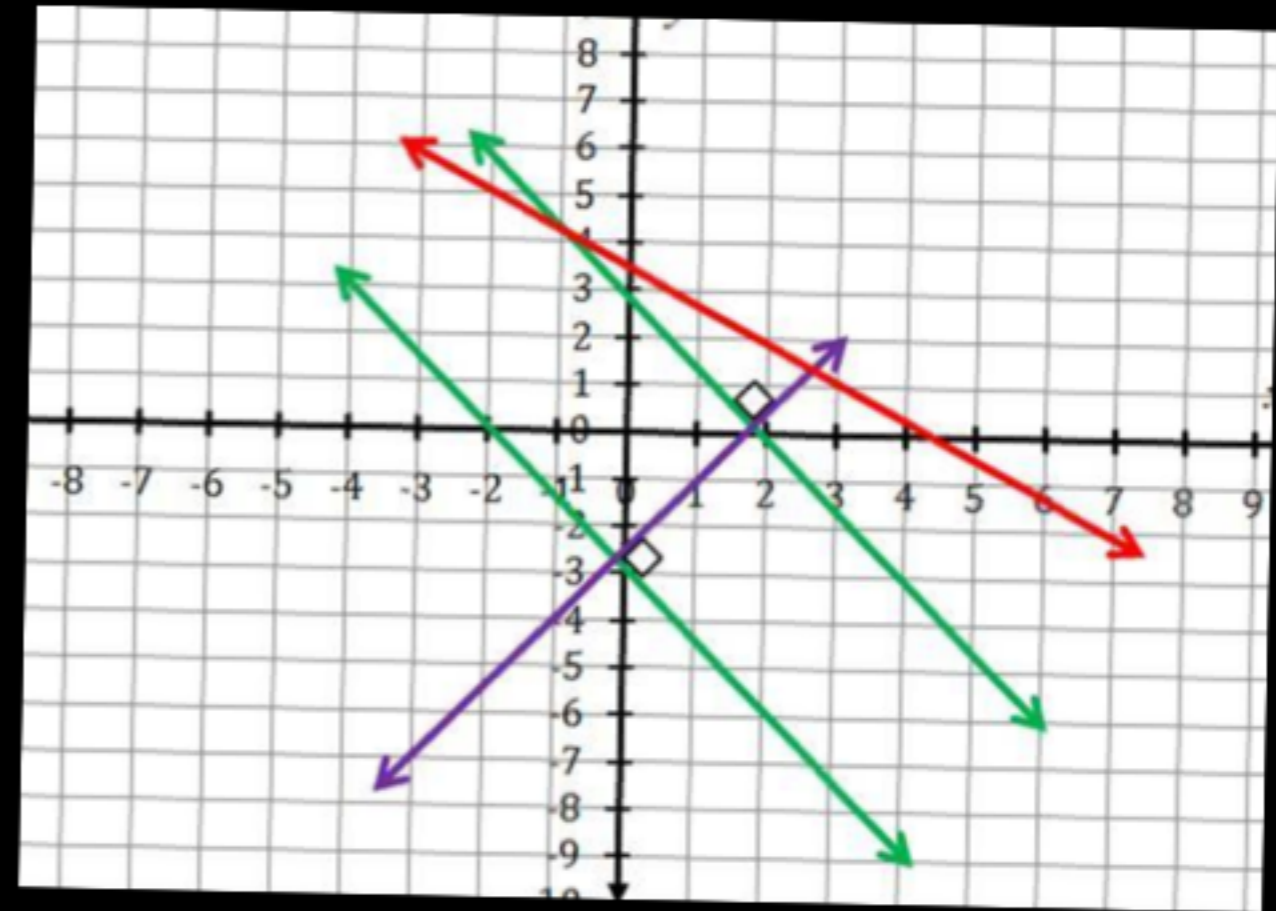
$$y = 6x + 12 \text{ and } 6x - y = 1$$

$$y = -\frac{5}{6}x - 4 \text{ and } 5x + 6y = -12$$

$$y = -\frac{5}{2}x - 3 \text{ and } -2x + 5y = 10$$

$$y = \frac{3}{4}x + 9 \text{ and } y = -\frac{4}{3}x + 1$$

Determine which lines are parallel and which are perpendicular





The End