Name: **KEY**   Notes#_____

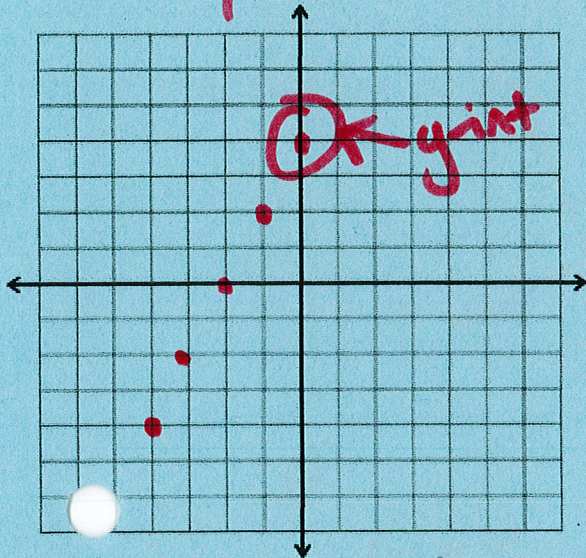# Notes: Review Parallel and Perpendicular Slopes

Skills Needed
* Plot point
* Slope from an EQ.
* Slope motion
* Parallel/Perp Slopes.

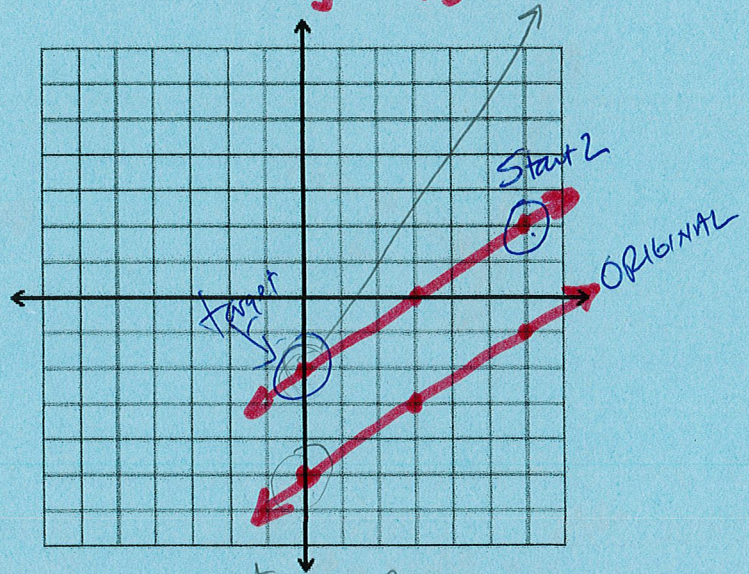Write the equation of the line **parallel** to the equation through the point

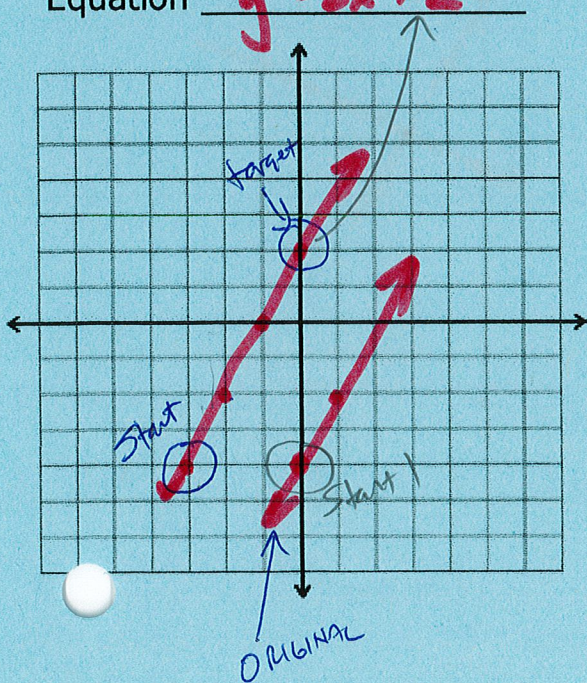1. $y = 2x + 1$ (-4, -4)
Slope **2**   ∥ slope **2** (up 2 / 1 →)
Equation **$y = 2x + 4$**

2. $Y = \frac{2}{3}x - 5$ (6, 2)   *Start 2*
Slope **2/3**   ∥ slope **2/3**
Equation **$y = \frac{2}{3}x - 2$**

3. $y = 2x - 4$ (-3, -4)   *Start 1   Start 2*
Slope **2**   ∥ slope **2**
Equation **$y = 2x + 2$**

4. $Y = -\frac{2}{3}x - 2$ (-3, 5)   *Start   Start 2*
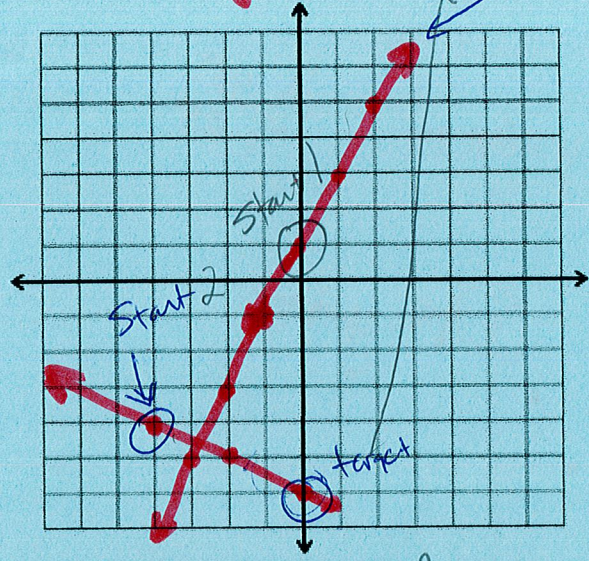Slope **-2/3**   ∥ slope **-2/3**
Equation **$y = -\frac{2}{3}x + 3$**
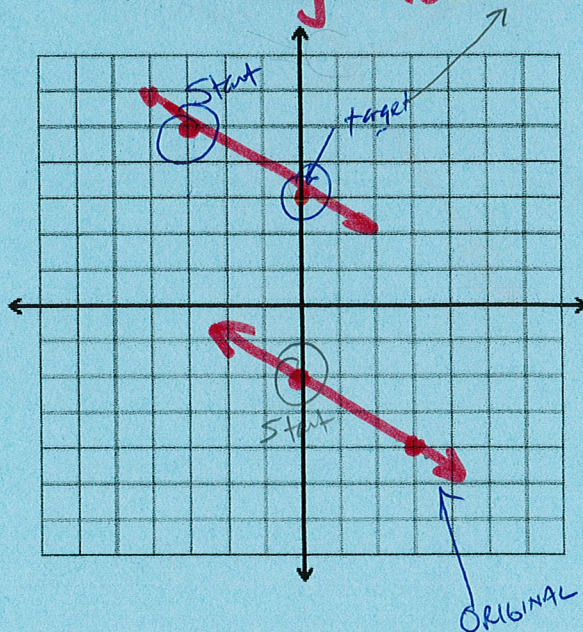
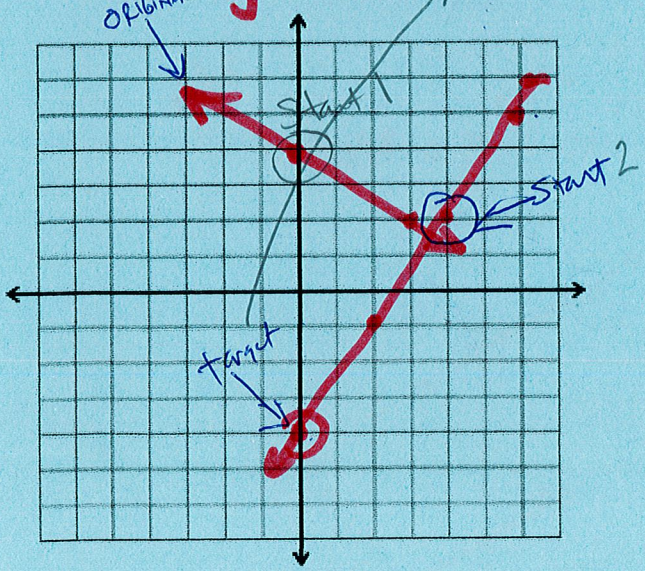Write the equation of the line **perpendicular** to the equation through the point

5. $y = \frac{1}{3}x - 4$ (-1, -1)

Slope ___4/3___ ⊥ slope ___-3/1→___

Equation ___$y = -3x - 4$___

y-int

6. $Y = 2x + 1$ (-4, -4)   Start 2

Slope __2__ ⊥ slope __-1/2__

Equation ___$y = -\frac{1}{2}x - 6$___

ORIGINAL
Start
Start 2
target
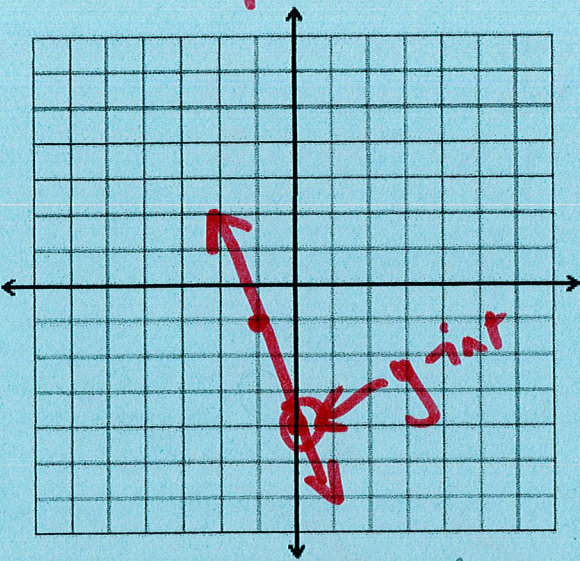
7. $y = -\frac{2}{3}x + 4$ (4, 2)   Start 2 3/2

Slope ___-2/3___ ⊥ slope ___3/2___

Equation ___$y = \frac{3}{2}x - 4$___

ORIGINAL
Start
Start 2
Target

8. $Y = -2x + 4$ (6, 2)   Start 2 1/2

Slope __-2__ ⊥ slope ___1/2___

Equation ___$y = \frac{1}{2}x - 1$___

ORIGINAL
Start 2
target