Writing Equations of Parallel and Perpendicular Lines Cue Card

Parallel Lines:

***Slopes are the SAME**

_____.

Steps	**Example**
Step 1: Identify the slope.	Slope of parallel line ☐
Step 2: Find the y-intercept. Given Point: (◯, △)	*****Substitute into Slope-Intercept Form: Y = mX + b and solve for b. △ = (☐ · ◯) + b △ = _____ + b _____ _____ ____ = b
Step 3: Write an equation. Use "y= mx + b".	**Equation: Y = ☐X + ____**

Perpendicular Lines:

***Slope = OPPOSITE RECIPROCAL (flip the fraction or whole number)** $Ex: \ 3 \ and \ -\frac{1}{3}$

_____.

Steps	
Step 1: Identify the slope.	Given equation has a slope of _____. So, the slope of the perpendicular line is ☐.
Step 2: Find the y-intercept. Given Point: (◯, △)	*****Substitute into Slope-Intercept Form: Y = mX + b and solve for b. △ = (☐ · ◯) + b △ = _____ + b _____ _____ ____ = b
Step 3: Write an equation. Use "y= mx + b".	**Equation: Y = ☐X + ____**