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NOTES: Chapter 5 Review

Goals: \#1 - I can write linear equations in slope-intercept form.
\#2 - I can use linear equations in slope-intercept form.
\#3-I can write linear equations in point-slope form.
\#4 - I can write linear equations in standard form.
\#5 - I can write equations of parallel and perpendicular lines.

Notes:
There are $\qquad$ 3 different forms we can write linear functions in:

$$
\text { - Slope -Intercept form: } y=m x+b
$$

This is useful when we are given the $\qquad$ slope and the $\qquad$ of the line.

- Point-slope Form $y-y_{1}=m\left(x-x_{1}\right)$

Examples: $y-3=\frac{1}{2}(x+2)$ La slope ( $x$ | $+2)$ |
| :--- |
| slope and point of the line. $\left.x_{1}, y_{1}\right)$ |
| point |

This is useful when we are given the $\qquad$ and a $\qquad$ point of the line.
$\qquad$

- Standard Form

Two lines can be parallel serpendicularor neither.

- Parallel Lines have the same slope.

Examples:

$$
\uparrow \hat{j} \quad y=2 x-5 \quad y=2 x+1
$$

- Perpendicular Lines nave $\qquad$
Examples:

$$
y=2 x-5
$$

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

