

CDentify the slope and the Y-intercept in each of the graphs Below.
Compare it to the equation of the Line. What do you notice?
(1) The graph below represents the
linear equation $y=\frac{3}{5} x-2$.


Slope:
$y$-intercept: $\qquad$
(1) Graph $y=\frac{1}{3} x-4$.

(3) Graph $y=x+2$

(2) The graph below represents the linear equation $y=\frac{-1}{2} x+3$.


Slope: $\qquad$
$y$-intercept. $\qquad$
(2) Graph $y=-5 x+3$

(4) Graph $y=3 x$


Graph Using Slope-Intercept Form

Graphing linear equations using SLOPe-efntercept form
Step:
Step 2:
SteP 3:
Example: Graph y $=\frac{2}{3} x-1$.


$$
y=\underbrace{\text { slope-edntercept form }} m x+\underbrace{m b}_{\uparrow}
$$

Slope and Intercepts
(1)


Slope: $\qquad$
$y$-intercept: $\qquad$
Slope- Intercept Form:
$\qquad$
(3)


Slope: $\qquad$
$y$-intercept: $\qquad$
Slope- InterceptForm:
$\qquad$
(2)


Slope: $\qquad$ $y$-intercept: $\qquad$
Slope- Intercept Form:
$\qquad$
(4)


Slope: $\qquad$ $y$-intercept: $\qquad$
Slope- Intercept Form:
$\qquad$

Writing Equations in Slope-Intercept Form

Answer Key！

iDentify the slope and the Y-intercept in each of the graphs Below.
Compare it to the equation of the Line. What do you notice?
(1) The graph below represents the
linear equation $y=\frac{3}{5} x-2$.


Slope: $\frac{r \text { rise }}{\psi_{\text {er }}=\frac{3}{5}-}$
$y$-intercept: $\qquad$
(2 The graph below represents the linear equation $y=\frac{-1}{2} x+3$.


Slope: $\frac{\text { rise }}{\text { rut }}=\frac{-3}{6}=\frac{-1}{2}$
y-intercept: -_3
(1) Graph $y=\frac{1}{3} x-4$.
(2) Graph $y=-5 x+3$

(3) Graph $y={ }_{1}^{1} x+2$


(4) Graph $y=3 x+0$


Graph Using Slope -Intercept Form

Step I: Identify the slope and the y-intercept.

Step 2: Plot the y-intercept.

Step 3: Use the slope to plot additional points (beginning from the $y$-intercept).
example: Graph $=\frac{2}{3} x-1$.
Step 1: $m=\frac{2}{3}$
b $=-1$
Step 2: Plot a point on the y-axis at -1 .

Step 3: From the $y$-int (-1) go up 2 and to the right


SLOPP-QNTERCPT form


Slope and Intercepts
(1)


Slope: _-_ $\frac{1}{4}$-_-_
y-intercept: _-_-3
Slope- Intercept Form:

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

(3)


Slope: $\qquad$
y-intercept: __-_
Slope- Intercept Form:

$$
y=-2 x+4
$$

(2)


Slope: _--- $\frac{-3}{4}$ y-intercept: __1

Slope- Intercept Form:

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

(4)


Slope: --- $\frac{2}{5}$-_-_ y-intercept: __O

Slope- Intercept Form:

$$
y=\frac{2}{5} x
$$

Writing Equations in Slope-Intercept Form

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## Directions

Step 1: Print pages 1\&2, and $3 \& 4$ front to back. I use the option on my printer double sided and to flip along the short edge. If you print single-sided first, then flip manually.
(The information should be facing in opposite directions)
Step 2: Cut along the dotted line to cut off the extra piece on the right side of the paper. If you photocopied this correctly, there should not be any problems in this area on the back side either.

Step 3: Line up the two pieces as shown:

## Writing Equations in Slope-Intercept Form Graph Using Slope-Intercept Form

Step 4: Fold over the top portion and secure with a few staples. The final product should look like this:


