# Unit 1 - Linear Functions and Equations Linear Function Graphs 

A "linear" function has a graph that is $\qquad$ . It has a constant $\qquad$ .

Slope Equation:
Slope-Intercept Form

$$
y=m x+b
$$

| $y=m x+b$ |  |  |  |
| :---: | :---: | :---: | :---: |
| Graph |  | Write |  |
| Graph special cases $y=-x$  $y=-6$  |  | Write special cases |  |

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## Point-Slope Form



## Standard Form

$A x+B y=C$

| Graph | W- $\uparrow$ ¢ |  |  |  |  |  |  |  | Rewrite in slope-intercept form |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | - | - | $\square$ |  |  |  | $\square \square$ |  |
|  |  |  | - | - |  |  |  | $\cdots$ |  |
|  |  |  | $\checkmark$ | $\bigcirc$ |  |  |  | $\square$ |  |
|  |  |  |  |  |  |  |  | $\square$ |  |
|  |  |  |  |  |  |  |  | $\longrightarrow$ |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | $\square$ |  |

## Unit 1 Linear Function Graphs Practice:

A) Find the slope of each linear function
1.

| $x$ | 0 | 1 | 2 | 3 |
| :---: | :---: | :---: | :---: | :---: |
| 4 |  |  |  |  |
| $y$ | 2 | 4 | 6 | 8 |


| $x$ | 0 | 1 | 2 | 3 | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $y$ | 10 | 7 | 4 | 1 | -2 |


| $x$ | 2 | 4 | 6 | 8 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $y$ | 4 | 10 | 16 | 22 | 28 |


| $\boldsymbol{x}$ | 2 | 4 | 6 | 8 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\boldsymbol{y}$ | 25 | 19 | 13 | 7 | 1 |

2. $f(x)=-5$
3. A line that passes through the points
a. $(4,-2)$ and $(-3,1)$
4. A line that passes through the points
a. $(1,2)$ and $(-2,-4)$
B) Write the equations:

| 1. Write in slope-intercept form | 2. Write FIVE DIFFERENT VERSIONS in pointslope form |
| :---: | :---: |
| 3. Rewrite in slope-intercept form: $y-4=\frac{2}{3}(x+3)$ | 4. Rewrite in slope-intercept form: $y-2=-\frac{3}{4}(x+5)$ |

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C) Graph the functions:

2. $y+3=-(x-4)$




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1. $y-5=2(x-6)$
