# Eave Giventer <br> <br> Math Virtual Learning <br> <br> Math Virtual Learning Algebra 1 S1 Algebra 1 S1 Review for Unit B 

 Review for Unit B}

May 21, 2020

Algebra I S1<br>Lesson: May 21, 2020

## Objective/Learning Target:

 Student will review Unit B concepts.
## Review for Unit B




## Review for Unit B



## Review for Unit B

## Writing Linear Equations



We use Point-Slope form, when we are given: a point and a slope!


## Review for Unit B

## Point Slope Form



Final Answer


## Review for Unit B

## Point Slope Form

Write the equation of the line that passes through

$$
(-3,5) \text { and }(-1,9)
$$

Can we find the slope? Do we have enough info?

What are we given? We are given 2 points, but no slope!

Yes, we can use...

$$
m=\frac{9-5}{-1-(-3)}=\frac{4}{2}=2
$$

## Review for Unit B

## Point Slope Form

Write the equation of the line that passes through $(-3,5)$ and $(-1,9)$.

Now that we know that the slope is 2 , we can use either point to find the equation of the line.

$$
\begin{aligned}
y-y_{1} & =m\left(x-x_{1}\right) \\
y-5 & =2(x-(-3)) \\
y-5 & =2(x+3) \\
y-5 & =2 x+6 \\
y & =2 x+11 \text { Done! }
\end{aligned}
$$

## Review for Unit B

## Writing Linear Functions

## Summary

1. When given the slope and $y$-intercept:
$\mathrm{y}=\mathrm{mx}+\mathrm{b}$.
2. When given 1 point and the slope, do point slope: $y-y_{1}=m\left(x-x_{1}\right)$.
3. When given 2 points, and no slope, one must find the slope ( $\mathrm{m}=\mathrm{y}_{2}-\mathrm{y}_{1}$ over $\mathrm{x}_{2}-\mathrm{x}_{1}$,, then use either point for the point slope form.

## Practice 1

First open up calculator and then notes. Practice using calculator.

## Calculator

## Notes

## Exit Pass

1. Without graphing describe how the line changes if the $y$-intercept is changed to 7
2. Without graphing describe how the line changes if the $y$-intercept is changed to -4
3. What happens to the line of $y=-x+12$ when the slope is divided by 2 ?
(a) The line becomes steeper
(b) The line moves up 7 units
(c) The line becomes less steeper
(d) The line moves down 7 units
4. Without graphing describe how the line $y=5 x+6$ changes if the slope is changed to -2
