Summative Assessment Review Day 3 (Units 5 & 6 - Chapters 6 & 7)

Analyzing Linear Relations (chapter 6 in text)

Equations of Lines in slope/y-intercept form

y = mx + b, where m is the slope, b is the y-intercept (where the graph crosses the y-axis - the point where x is 0)

Equations of Lines in standard form

- - Ax + By + C = 0, leading coefficient must be positive, no fractions, no decimals, = 0 on the right side

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 Horizontal/Vertical Lines

 Graphing using intercepts

 Parallel Lines (parallel lines have the same slope)

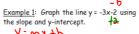
 Perpendicular Lines (slopes are negative reciprocals)

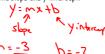
 Finding Equation of Line given a point and slope

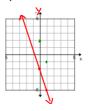
 Finding Equation of Line given two points

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- > Linear Systems (Finding point of intersection of two







Example 2: Write the equation 2x - 4y = 10 in slope/y-intercept form (y = mx + b) form)

-1 x + y + 5 = 0

x = -3

Example 3: Write y = -3x + 2 in standard form

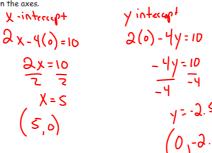
Example 4: The equations of four lines are given:

- Which of these represents
- (a) a vertical line? X =-3
- (b) a horizontal line? Y= 5
- (c) a line that slopes upward to the right? Y= 2x -4
- (d) a line that slopes downward to the right? Explain each choice.

Example 5: Graph 2x - 4y = 10 using intercepts.

To find the x-intercept, set y=0To find the y-intercept, set x=0

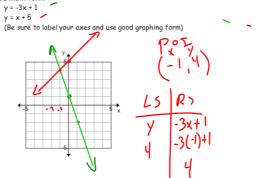
Be sure to extend the line to fill your grid and label the line. Ensure that you have included a scale, you've labeled the axes and included arrows on the line and on the axes.



Example 6: What is the equation of a line...

- (a) With y-intercept 3 and perpendicular to a line with slope $\frac{1}{2}$.
- (b) Parallel to the line x = 2 and passing through the point $(5, 7) \times 5$
- (c) through (-4, -1) with slope $\frac{1}{2}$. See Next page
- With an x-intercept of 6 and a y-intercept of 4
 To write the equation of a line we need the slope and the y-intercept. We need to use the two points (6, 0) and (0, 4) to find the slope.
- Through the points (-1, 7) and (-5, 3)

 $\underline{\text{Example 7:}} \ \ \text{Find the point of intersection of the two lines by graphing.} \ \ \underline{\text{Check your answer using}}$ good Math form.



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