

Fontana Unified School District

Every Student Successful | Engaging Schools | Empowered Communities



IM1

Week: 4/6/20 – 4/10/20

1

Find the area of the shaded region in the figure below. Round your answer to the nearest hundredth.

$30 \times 5 - 4 \times 6 = 150 - 24 = 126$

2

Consider the given equation that models a...

3

A rectangular prism is shown below. The length of the prism is 15 feet, the width is 10 feet, and the height is 8 feet. Find the surface area of the prism.

$2(15 \times 10 + 15 \times 8 + 10 \times 8) = 2(150 + 120 + 80) = 2(350) = 700$

4

Find the area of the shaded region in the figure below. Round your answer to the nearest hundredth.

$30 \times 5 - 4 \times 6 = 150 - 24 = 126$

	Yes	No
5	<input type="checkbox"/>	<input type="checkbox"/>

5

Which inequality represents all possible solutions?



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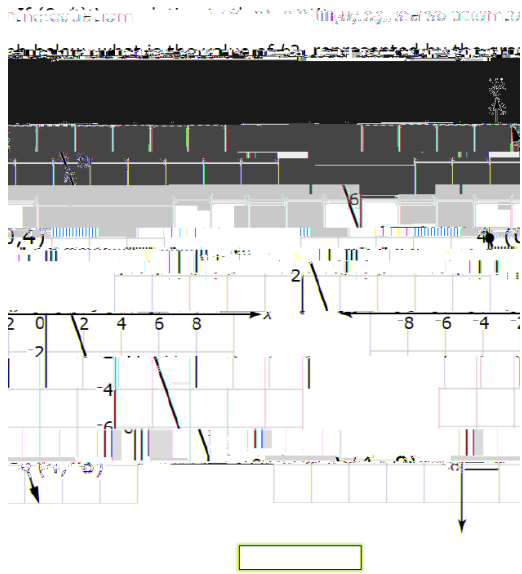


IM1

Week: 4/13/20 – 4/17/20

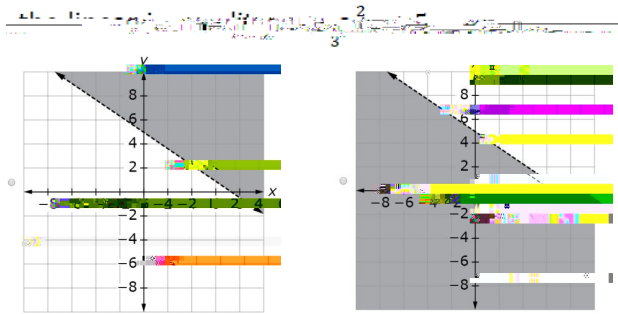
Concept: Graphing Linear Equations & Inequalities

1



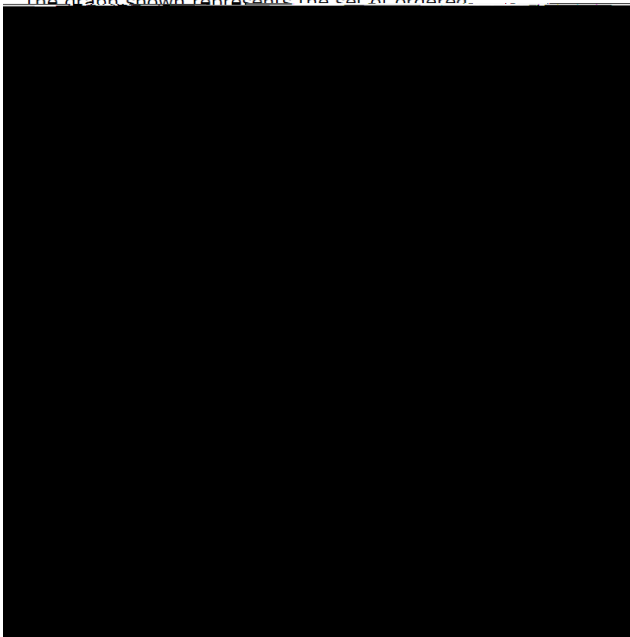
2

Select the graph that shows the solution set of



3

The graph shown represents the set of ordered



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M 52



D M H // M D L 5

M 52



Period: _____

Milk jug races are popular in cities that are near a large body of water.

Competitors design and build a boat using milk jugs.



Competitors in the milk jug race do not start the race at the same time.

During the race, a competitor does ~~not~~ know if he/she is winning, close to winning, or really far behind.

Byron, Clarissa, and Janelle just completed a milk jug race.

The race was a total distance of 400 yards.

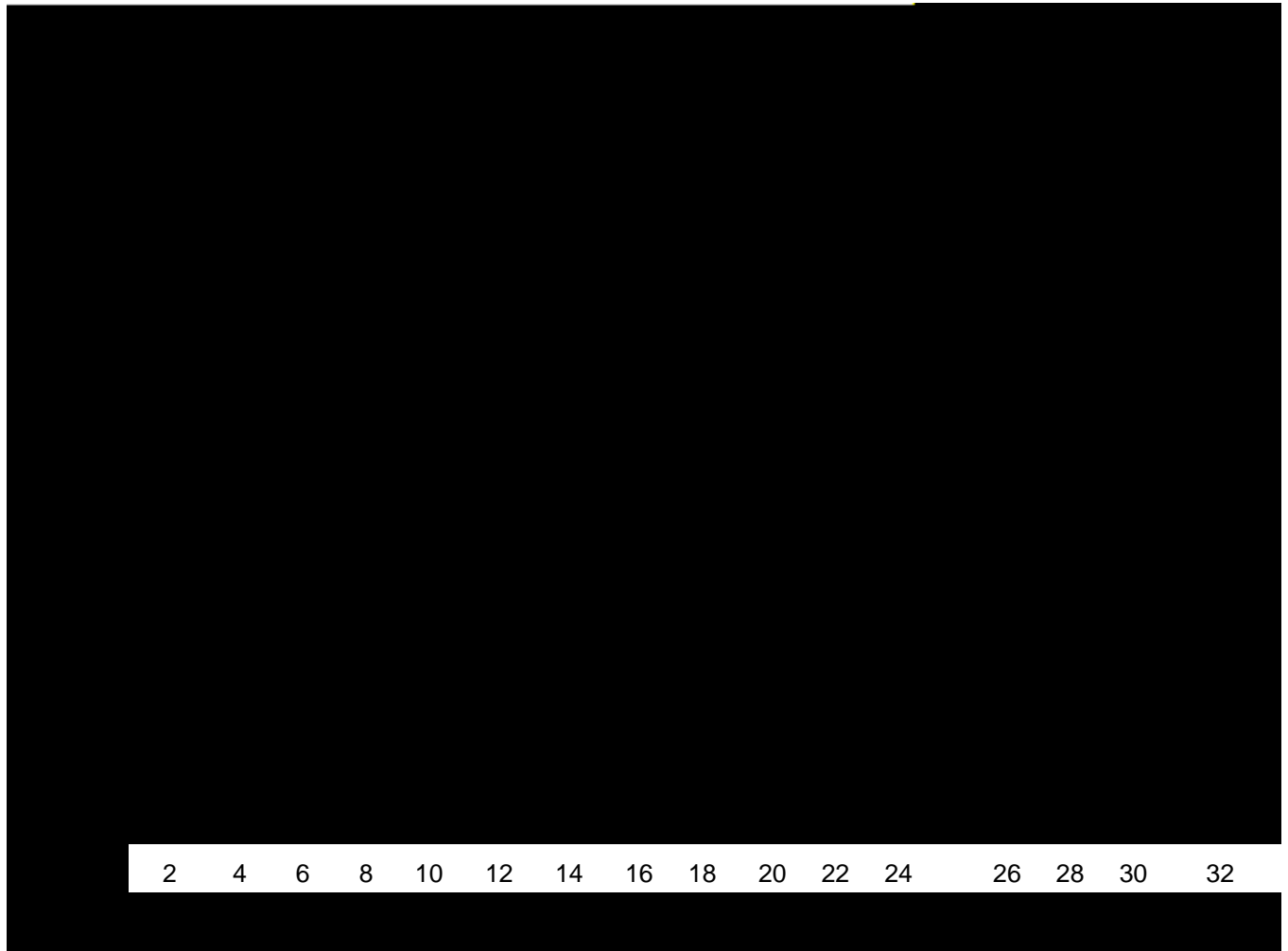
Each competitor kept track of their own progress during the race.

Read the ~~Race~~ Race Information for each competitor.

Race Information:

- $\frac{3}{4}$ Byron wore a speedometer during the race.
 - f he maintained a constant rate of 16 yards per minute.
- $\frac{3}{4}$ Clarissa noted how much time it took her to complete each 100 yards with the race.
 - f She completed the first 100 yards in 7 minutes,
 - f the second 100 yards in 6 minutes,
 - f the third 100 yards in 5 minutes, and
 - f the fourth 100 yards in 6 minutes.
- $\frac{3}{4}$ Janelle used google maps app on her phone to show the distance and time she completed the race.

¾ Janelle used google maps app on her phone to show the distance and time as she completed the race.



Your task is to determine who won the milk jug race.

1. How many total minutes passed once Charissa completed 200 yards in the race?

_____ minutes

2. Write a function to represent the relationship between time (x) and distance (y).

Function _____

Do you agree or disagree with Byron's function? $f(x) = 60x + 30$



4. Janelle claims that she completed the first 100 yards faster than Byron or Clarissa. Do you agree or disagree? Explain your answer.

IM1

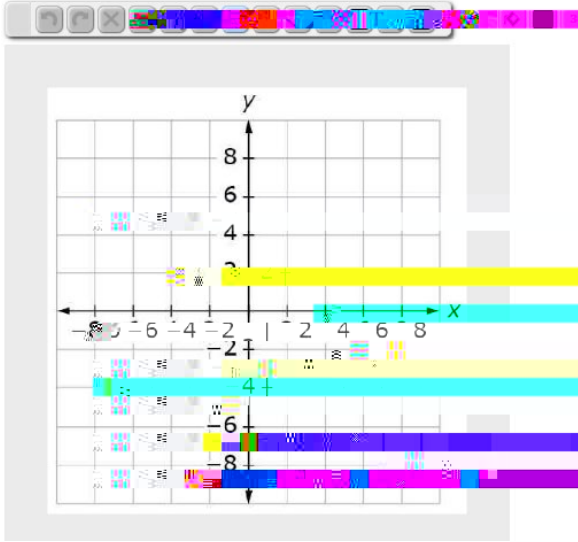
Week:

1

Graph the lines representing the boundaries of the system of linear inequalities

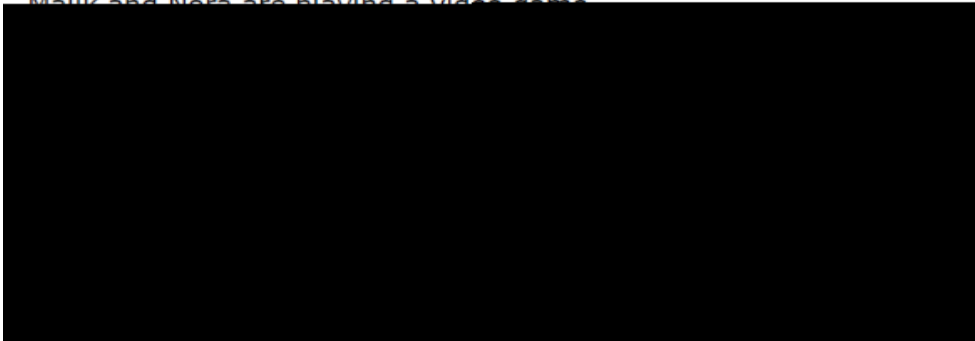
$$3x + 2y \leq 6$$

$$4x - y \leq 8$$



2

Malik and Nora are playing a video game



3

Determine whether the ordered pairs listed below are solutions to the following system of linear inequalities:

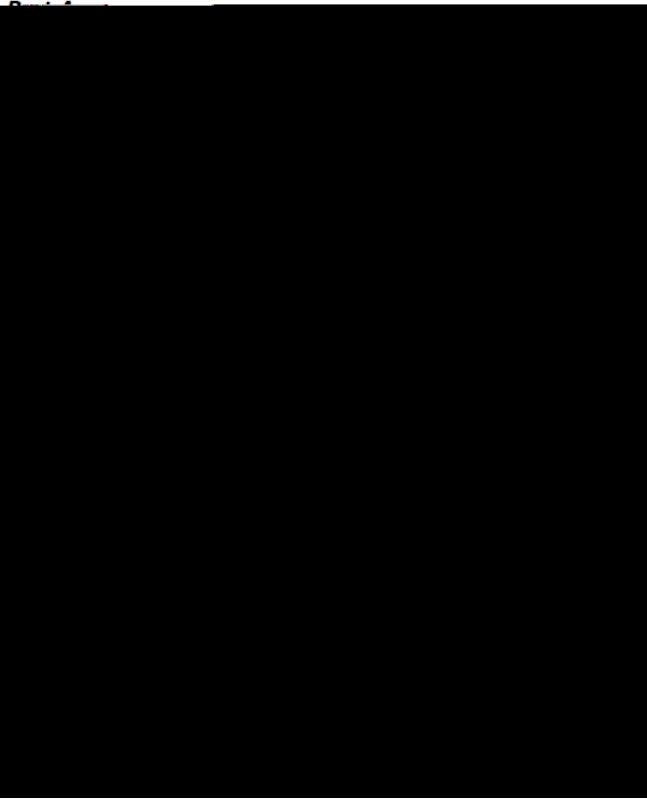
$$3x + 2y \leq 6$$

$$4x - y \leq 8$$

	Not a Solution
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
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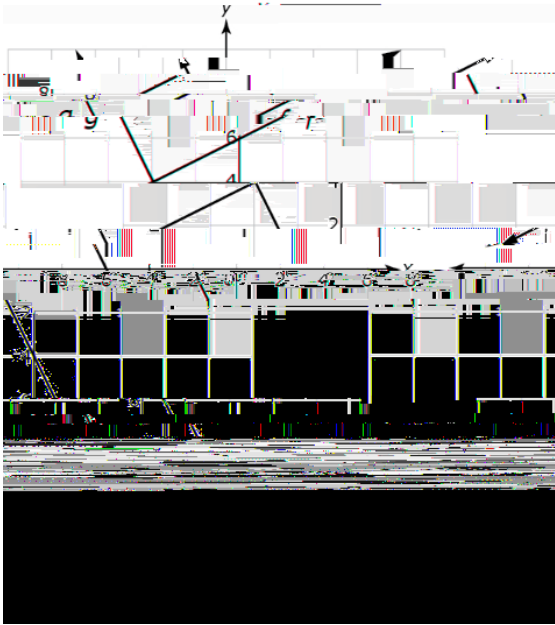
	Solution
<input type="checkbox"/>	(-4, 4)
<input type="checkbox"/>	(-4, 0)
<input type="checkbox"/>	(0, 4)
<input type="checkbox"/>	(0, -4)
<input type="checkbox"/>	(4, 0)

4



5

The graphs of the linear functions f and g are shown.



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5.10

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475!



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IM1


Week: 4/27/20 – 5/1/20
Concept: Exponential Functions

1

function in recursive notation. Consider this

$$f(1) = -3$$

... for $x > 1$. Select the equivalent explicit function

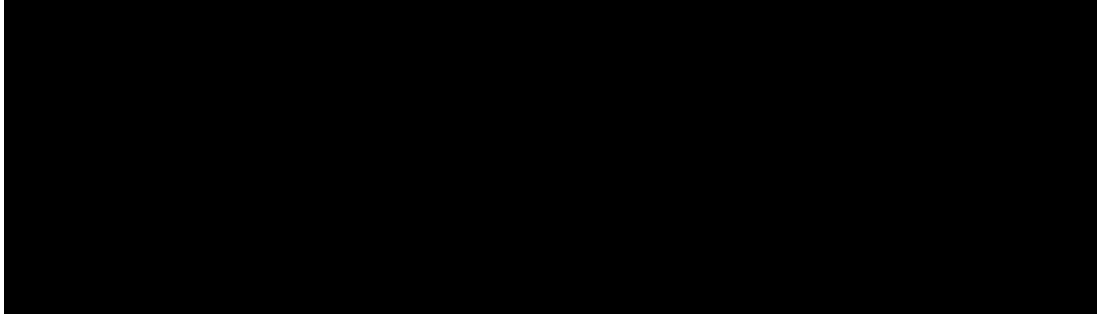


2

3

4

A washing machine was purchased for \$250. It is expected to last for 10 years.

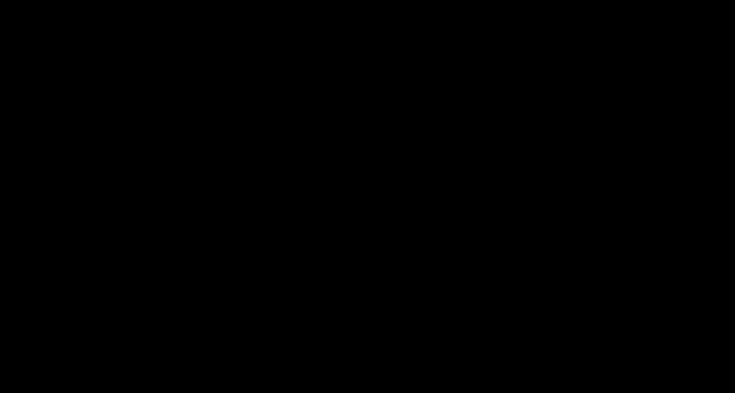


5

Consider the function $f(x) = 3x^2 - 4x + 1$.

Find the vertex of the parabola.

Graph the function. Be sure to indicate the vertex and the direction of opening.







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F.LE, A.REI Population and Food Supply

The population of a country is initially 2 million people and is increasing at 4% per year. The country's annual food supply is initially adequate for 4 million people and is increasing at a constant rate adequate for an additional 0.5 million people per year.

- Based on these assumptions, in approximately what year will this country first experience shortages of food?
- If the country doubled its initial food supply and maintained a constant rate of increase in the supply adequate for an additional 0.5 million people per year, would shortages still occur? In approximately which year?
- If the country doubled the rate at which its food supply increases, in addition to doubling its initial food supply, would shortages still occur?