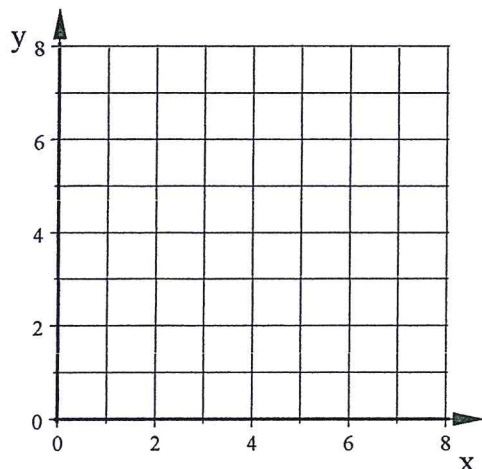


Bellwork Hon Alg 2 Monday, October 17, 2016

1. Use the graph below to graph this system of inequalities. Shade the feasible region with a separate color.

$$A \geq 0 \quad M \geq 0 \quad A + M \leq 5 \quad 6A + 9M \leq 36$$



2. State the coordinates of the corners of the feasible region.

3. Which of the corners from problem #2 maximizes the following function?

$$15A + 50M = T$$

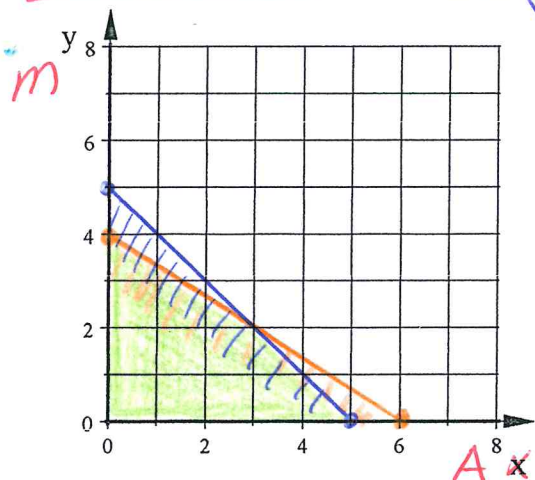
Bellwork Hon Alg 2 Monday, October 17, 2016 Answers

1. Use the graph below to graph this system of inequalities. Shade the feasible region with a separate color.

$$A \geq 0 \quad \text{1st QUAD.} \quad M \geq 0$$

$$A + M \leq 5$$

$$6A + 9M \leq 36$$



$$A\text{-int} = 5 \\ M\text{-int} = 5$$

$$A\text{-int} = 6 \\ M\text{-int} = 4$$

Solution Region
in Green

$$(A, M) \\ (0, 0) \quad (5, 0) \quad (3, 2) \quad (0, 4)$$

2. State the coordinates of the corners of the feasible region.

3. Which of the corners from problem #2 maximizes the following function?

$$15A + 50M = T$$

$$15A + 50M$$

$$(0, 0) = 0$$

$$(3, 2) = 145$$

$$(5, 0) = 75$$

$$(0, 4) = 200$$

THIS IS THE
MAX.