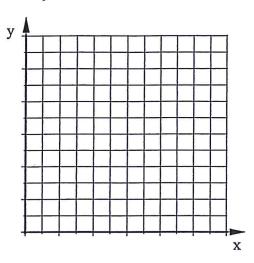
Alg 2A Tuesday, November 29, 2016 Bellwork

1. Graph this system of inequalities. Shade the solution region a separate color.

$$4 < x + y < 10$$

$$2 \le x \le 6$$

$$2x + 4y \ge 24$$



2. A diner is serving Hamburgers and Hot Dogs. They charge \$2.75 for each Hamburger meal and \$2.25 for each Hot Dog meal. They want to make at least \$500. They only have time to make 300 meals. They want to sell at least 100 Hamburgers. Write a system of FIVE inequalities to model this situation.

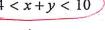
Tuesday, November 29, 2016 Answers Bellwork Alg 2A

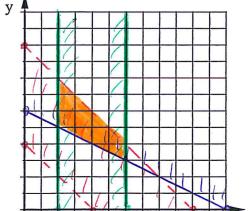
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Y-111 = 6 shade above

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$$2.75x + 2.25y \ge 500$$

 $x + y \le 300$ $X \ge 100$