## Bellwork Alg 2A Monday, November 28, 2016

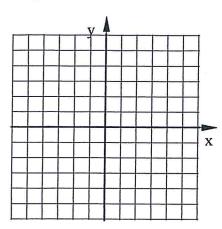
1. Graph this system of inequalities. Shade the solution region a separate color.

$$y<\frac{1}{2}x+6$$

$$2x + 4y < 24$$

$$y \ge -2x - 4$$

$$6x - 3y \le 12$$



2. John is packing books into boxes. Each box can hold either 15 small books or 9 large books. He needs to pack at least 24 boxes and ship at least 270 books. Boxes containing small books cost \$8 to ship. Boxes containing large books cost \$9.60 to ship. He only has \$240 to spend on shipping. Write a system of FIVE inequalities to model this situation.

L = # boxes of large books

S = # boxes of small books

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Answers

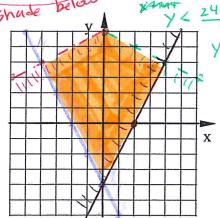
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$$v > -2x - 4$$

$$6x - 3y \le 12$$

stem of inequalities. Shade the solution  $\frac{2x+4y<24}{y\geq -2x-4}$   $\frac{6x-3y\leq 12}{y-197}$ Yhave  $\frac{24-2x}{y}$  Shade  $\frac{24-2x}{y-197}$   $\frac{24$ 



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