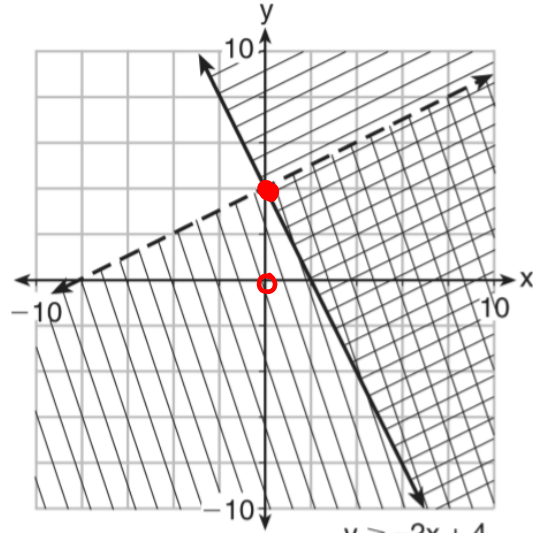


Determine if the point $(0, 4)$ is a solution to the system of inequalities graphed below. Justify your answer.

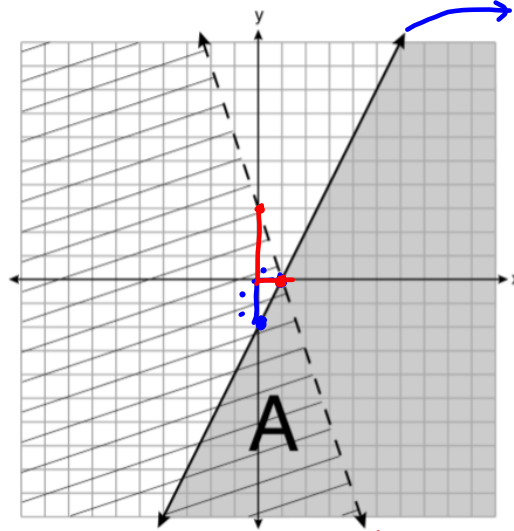


It is only a solution for 1 inequality, NOT both.

$y \geq -2x + 4$
 $4 \geq -2(0) + 4$
 $4 \geq 4$

Nov 6-2:08 PM

A system of inequalities is graphed on the set of axes below.



$y \leq 2x - 2$

$y < -3x + 3$

State the system of inequalities represented by the graph.

State what region A represents. **The Solution Area**

State what the entire gray region represents.

The Solution for $y \leq 2x - 2$ ONLY

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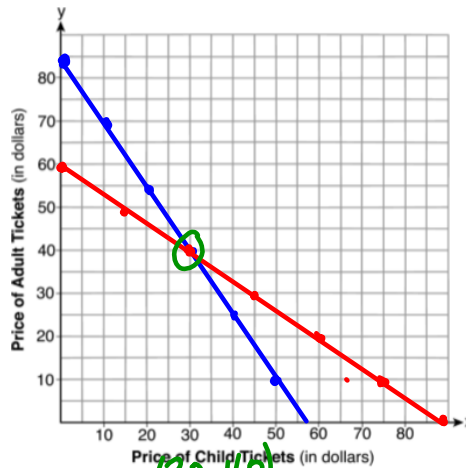
Two families went to Rollercoaster World. The Brown family paid \$170 for 3 children and 2 adults. The Peckham family paid \$360 for 4 children and 6 adults.

If x is the price of a child's ticket in dollars and y is the price of an adult's ticket in dollars, write a system of equations that models this situation.

Graph your system of equations on the set of axes below.

B: $3x + 2y = 170$
 $2y = -3x + 170$
 $y = -\frac{3}{2}x + 85$

P: $4x + 6y = 360$
 $6y = -4x + 360$
 $y = -\frac{2}{3}x + 60$



State the coordinates of the point of intersection. $(30, 40)$

Explain what each coordinate of the point of intersection means in the context of the problem.

Children's = \$30
 Adult's = \$40

Nov 6-2:11 PM