

Review for Benchmark 2

A video game console costs \$259 and games cost \$29 each. You saved \$400. What are the possible numbers of games that you can buy?

$$259 + 29x \leq 400$$

$$\begin{array}{r} 259 \\ -259 \\ \hline 29x \leq 141 \\ \frac{29x}{29} \leq \frac{141}{29} \\ x \leq 4.9 \\ \boxed{x < 4 \text{ games}} \end{array}$$

Sep 13-2:56 PM

Suppose you want to buy a new video game console with 8% sales tax. You have \$400. How much can you spend on the video game console?

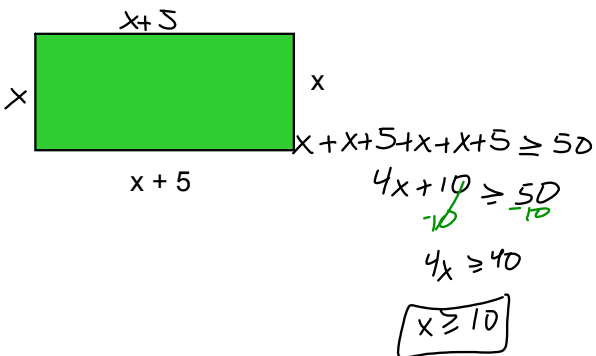
$x = \text{price of the console}$

$$x + .08x \leq 400$$

$$\begin{array}{r} 1.08x \leq 400 \\ \frac{1.08x}{1.08} \leq \frac{400}{1.08} \\ \boxed{x \leq \$370.37} \end{array}$$

Mar 28-10:52 AM

The perimeter of the rectangle is at least 50 ft. What are the possible lengths of  $x$ ?



Mar 28-11:00 AM

Solve each of the following for the value of  $x$ :

$$\begin{array}{r} -5 \\ - \\ 3 \end{array} x + 2 = -3$$

$$\begin{array}{r} -2 \\ - \\ 5 \end{array} \cdot \frac{-5}{5} x = \frac{-5}{5} \cdot \frac{-3}{5}$$

$$\boxed{x = 3}$$

Sep 13-3:11 PM

Solve each of the following for the value of  $x$ :

$$-4(2x - 1) < -10(x - 5)$$

$$\begin{array}{r} -8x + 4 < -10x + 50 \\ +10x & +10x \end{array}$$

$$2x + 4 < 50$$

$$\begin{array}{r} 2x < 46 \\ \frac{2x}{2} < \frac{46}{2} \\ \boxed{x < 23} \end{array}$$

Sep 13-3:16 PM

Solve each of the following for the value of  $x$ :

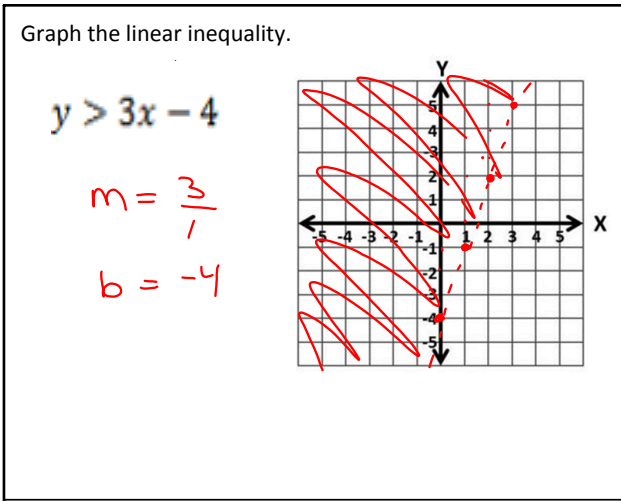
$$8 \cdot \frac{(x-5)}{2} \geq 12 \cdot 3$$

$$x - 5 \geq 36$$

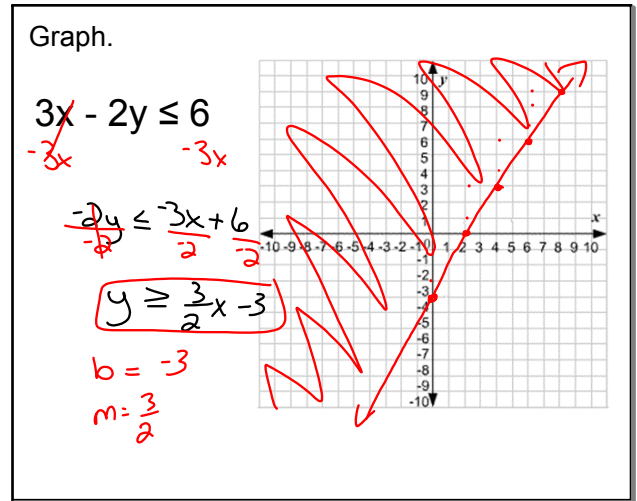
$$\begin{array}{r} +5 \\ +5 \end{array}$$

$$\boxed{x \geq 41}$$

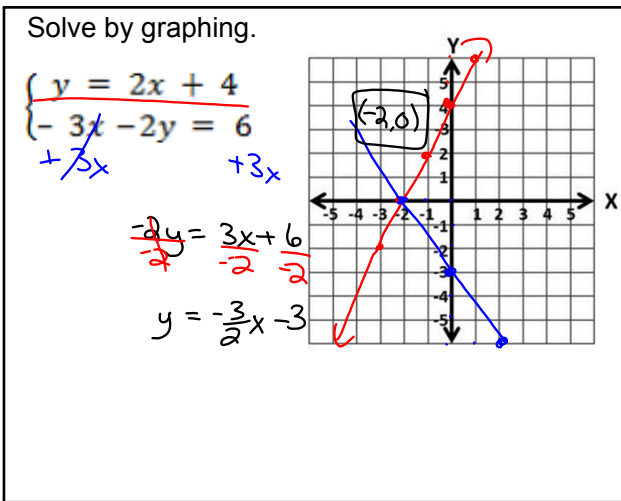
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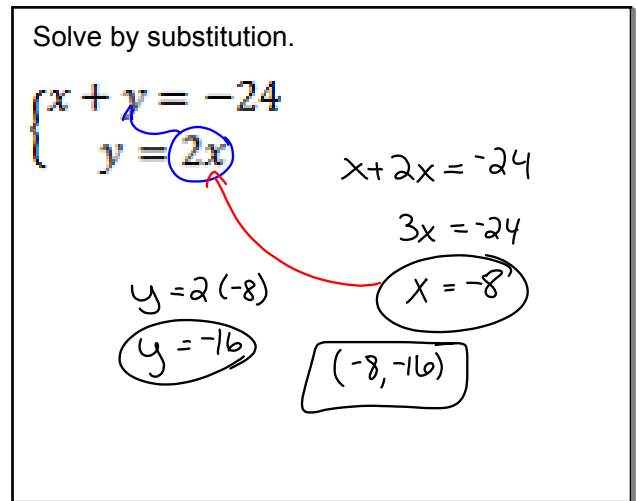
Nov 11-2:19 PM



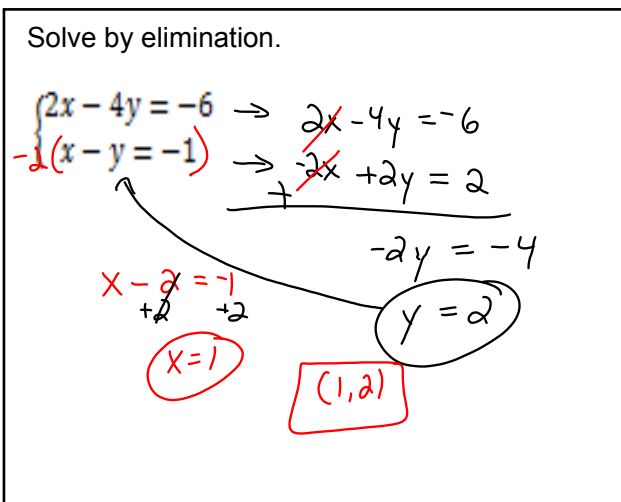
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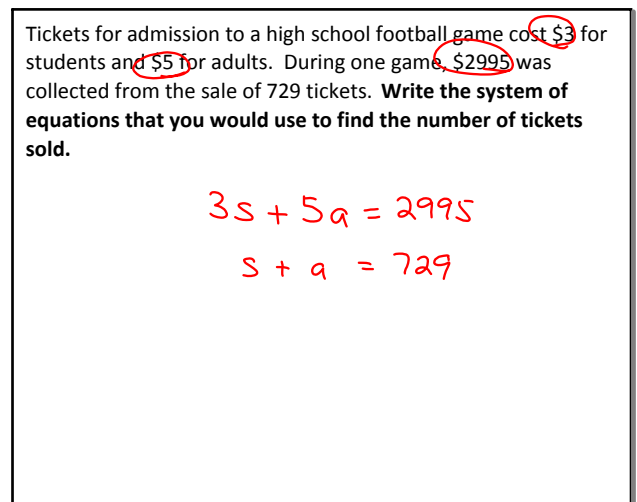
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Nov 11-2:40 PM



Nov 11-2:40 PM



Nov 11-2:41 PM

**Classwork: worksheet #1 - 15**

**Homework:**

**Study for benchmark test (ch.5 and 6)**

Sep 14-10:38 AM