

27 Solve the inequality below:



$$\begin{array}{c|c}
1.8 - 0.4y \stackrel{?}{>} 2.2 - 2y \\
-1.8 \\
-0.4y \stackrel{?}{>} .4 - 24 \\
+ 2y + 2y \\
1.6y \stackrel{?}{>} .4 \\
1.6y \stackrel{?}{>} .4
\end{array}$$

28 Jakob is working on his math homework. He decides that the sum of the expression $\frac{1}{3} + \frac{6\sqrt{5}}{7}$ must be rational because it is a fraction. Is Jakob correct? Explain your reasoning.

$$\frac{1}{3} + \frac{6\sqrt{5}}{7} = 2.249963028$$

Jakob is wrong b/c when you add them you get airrational #. This is irrational because it goes on Forever w/ no pattern

Two friends went to a restaurant and ordered one plain pizza and two sodas. Their bill totaled \$15.95 Later that day, five friends went to the same restaurant. They ordered three plain pizzas and each person had one soda. Their bill totaled \$45.90.

Write and solve a system of equations to determine the price of one plain pizza. [Only an algebraic solution can receive full credit.]

