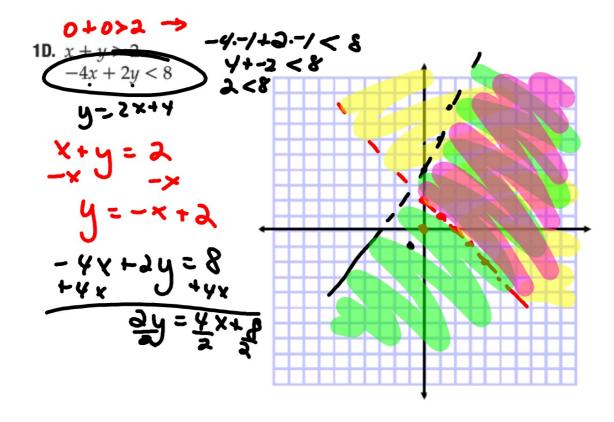
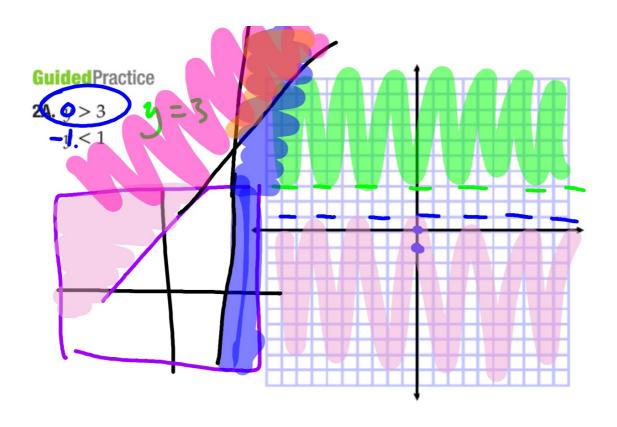
Algebra 1 6.6

Solve systems of linear inequalities by graphing Apply systems of linear inequalities linear inequality* system boundary open

closed

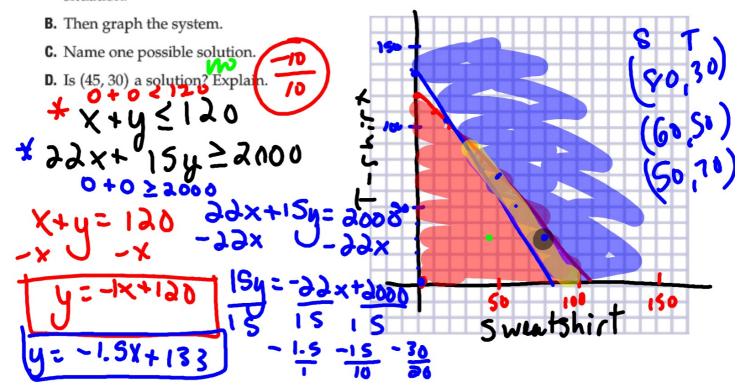
Whiteboards





GuidedPractice

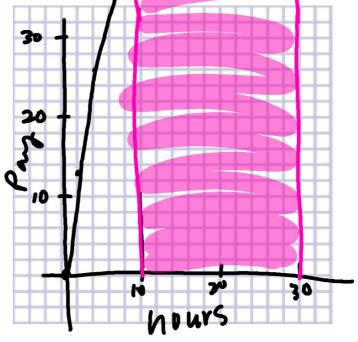
- **3. FUNDRALENC.** The Theater Club is selling shirts. They have only enough supplies to print 120 shirts. They will sell sweatshirts for \$22 and T-starts for \$15, with a goal of at least \$2000 in sales.
- **A.** Define the variables, and write a system of inequalities to represent this situation.



- **26.** MODELING Josefina works between 10 and 30 hours per week at a pizzeria. She earns \$6.50 an hour, but can earn tips when she delivers pizzas.
 - a. Write a system of inequalities to represent the dollars d she could earn for working h hours in a week.
 - b. Graph this system.
 - c. If Josefina received \$17.50 in tips and earned a total of \$180 fb; the week, how many hours did she work?

$$10 \le h \le 30$$

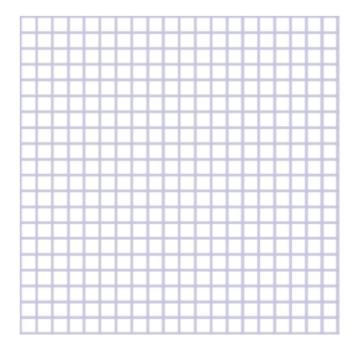
 $6.50_x + tips$
 $P = 6.50 \cdot h + 0$
 $\frac{6.5}{1} = \frac{13}{2}$



 $6.50 \times +17.50 = 180$ -17.50 - 17.50 $6.50 \times = 162.5$ $\times = 25$

- **25. ICE RINKS** Ice resurfacers are used for rinks of at least 1000 square feet and up to 17,000 square feet. The price ranges from as little as \$10,000 to as much as \$150,000.
 - **a.** Define the variables, and write a system of inequalities to represent this situation. Then graph the system.
 - b. Name one possible solution.
 - **c.** Is (15,000, 30,000) a solution? Explain.

e 374 1-6 49-51 56-58



2B.
$$x + 6y \le 2$$
 $y \ge -\frac{1}{6}x + 7$

