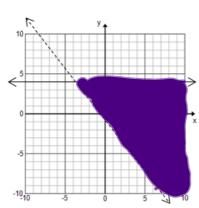
Entrance Ticket

Directions: Shade ONLY the feasible region for the system of inequalities on the right.

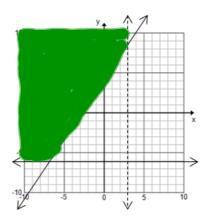
$$1. \, \frac{-4}{3} x - 1 < y$$

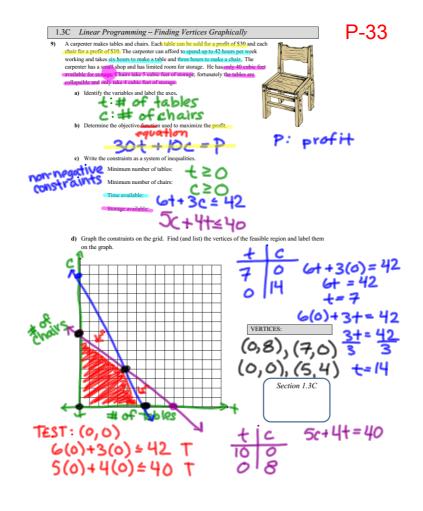
$$y \le 4$$



2.
$$2x + 4 \le y$$

$$y \ge -6$$





Learning Target: I can find vertices using graphing technology.

page 26

1.3D Linear Programming - Finding Vertices Algebraically

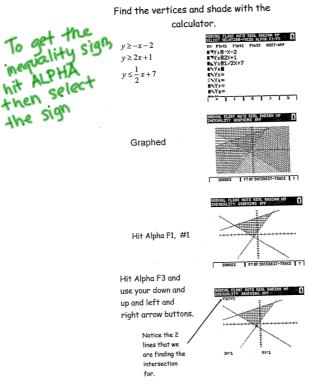


Up to this point, you have worked with linear programming problems by:

- 1) Writing and graphing a system of inequalities,
- 2) Finding the feasible region for the system,
- 3) Locating the vertices on the graph of the feasible region graphically

Most real-life situations though, do not have solutions that are whole numbers such as the solutions for Larry's Lawn Service and Cam's spring planting. In situations where the vertices are not easily found, we use algebraic methods to solve for them.

Finding Vertices Using Graphing Technology



Solutions (-1,-1), (-6,4), (4,9)

HOMEWORK TONIGHT:

