

Inequalities Worksheet

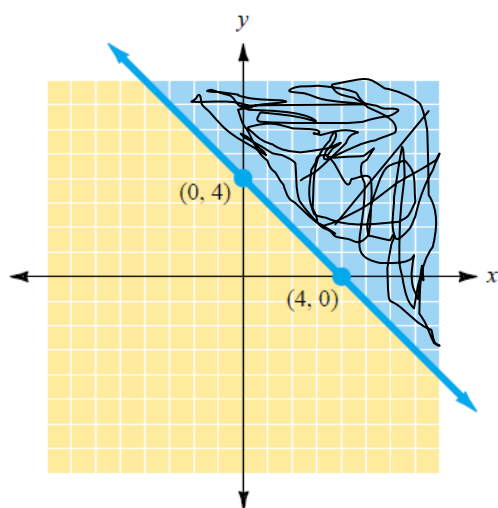
- 32. Manufacturing.** A manufacturer produces portable radios and CD players. The radios require 10 h of labor to produce and CD players require 20 h. Let x represent the number of radios produced and y the number of CD players.

If the labor hours available are limited to 300 h per week, Write a linear inequality that represents this situation.

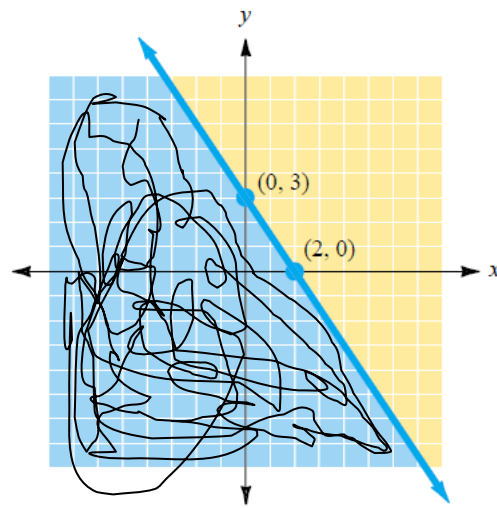
- 33. Serving capacity.** A hospital food service can serve at most 1000 meals per day. Patients on a normal diet receive 3 meals per day and patients on a special diet receive 4 meals per day. Write a linear inequality that describes the number of patients that can be served per day and draw its graph.

In exercises 35 to 38, write an inequality for the shaded region shown in the figure.

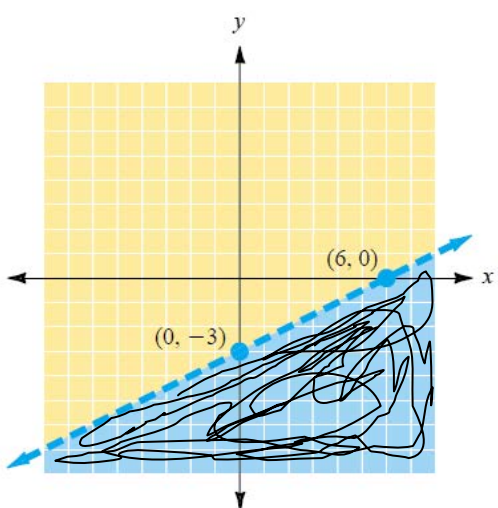
35.



36.



37.



38.

