

Name _____

10-9A Lesson Master

Questions on SPUR Objectives

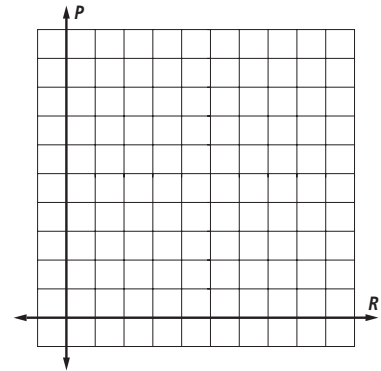
See pages 650–653 for objectives.

USES Objective H

1. Mr. Luckason's class has \$265 to spend for red trim and pile fabric to make vests for a play. The red trim costs \$1.25 per yard and the pile fabric costs \$6.00 per yard. The number of yards of pile fabric they purchase cannot exceed twice the number of yards of red trim they buy.

a. Write a system of inequalities that describes the total number of yards of red trim R and yards of pile fabric P that Mr. Luckason's class can purchase.

b. Graph all combinations they could buy.



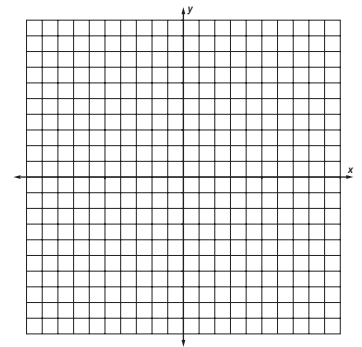
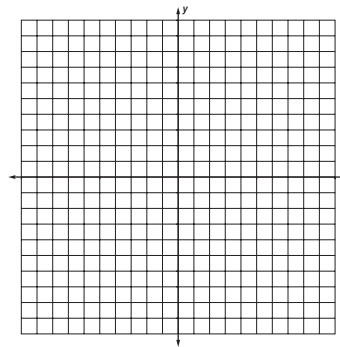
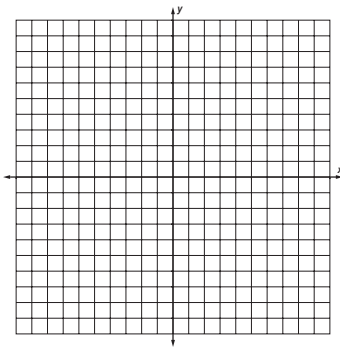
REPRESENTATIONS Objective J, K

In 2-4, graph the solution to the system.

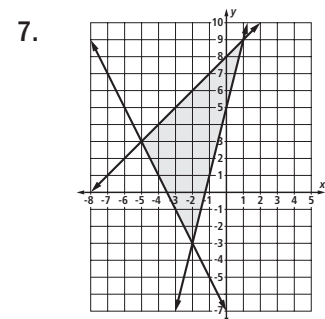
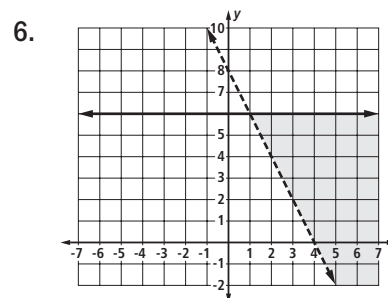
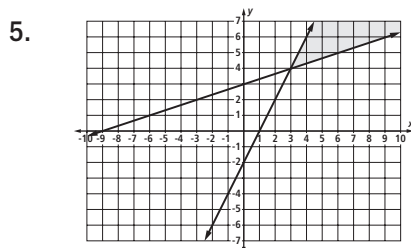
2.
$$\begin{cases} 2x + 8y < 16 \\ y > -x + 5 \end{cases}$$

3.
$$\begin{cases} -x + 4y \geq 1 \\ 2x + y < 10 \end{cases}$$

4.
$$\begin{cases} y < x + 13 \\ y \geq -\frac{1}{3}x + 5 \end{cases}$$



In 5-7, describe the shaded region with a system of inequalities.



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