Name

4-6B Lesson Master

Questions on SPUR Objectives
See pages 245–249 for objectives.

PROPERTIES Objective G

In 1–5, solve.

1. $20x - 6 = 20(x - 0.2)$

2. $10x - 5 = 5(2x + 0.5)$

3. $-2(x + 0.5) = -2(x - 5)$

4. $8(0.5x - 2) = 3(x + 5)$

5. $25(2x - 5) = 10(4x + 1) + 10x$

6. Explain why $7y - 1 = 7(y + 2)$ has no real solutions.

7. Describe the solution to $5x + 3 < 5x - 1$.

8. Describe the solution to $2x + 3 > 2x - 1$.

9. Penny drives her car about 19,000 the first year, but each year she ends up driving about 500 more miles than she drove the year before. Eric drives his car about 23,000 per year, and he too drives 500 more miles each year than he did the year before.

   a. Write an expression for each person's total mileage.

   b. When is Eric's total mileage lower?

Name

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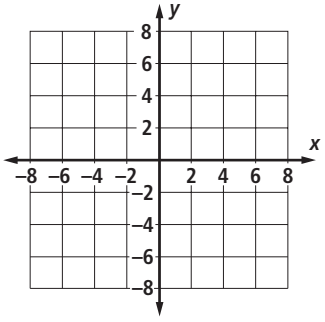
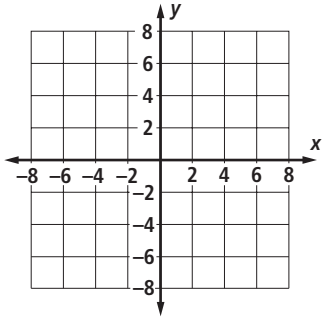
REPRESENTATIONS Objective M

In 10–15, solve by letting the variable equal each side of the sentence and graphing.

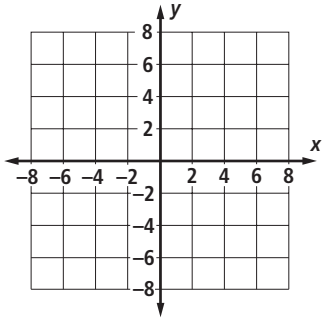
10. $21x + 4 - 3(5x + 2) > 6x + 2$



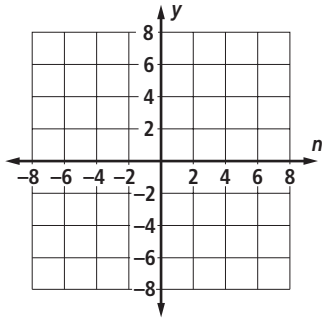
11. $4s + 2 = 4s - 3$



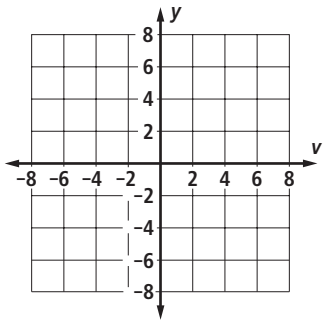
12. $2.5(2x) < x + 0.5(10x + 2)$



13. $4n + 3 = 2(2n + 4) - 5$



14. $5v + 3 \geq 5v + 3$



15. $3b - 1 > 3(b - 1) + 5$