

Name _____

2-6A Lesson Master**Questions on SPUR Objectives**

See pages 125–127 for objectives.

REPRESENTATIONS Objective J

In 1–6, use a CAS or graphing utility to determine whether the expressions are equivalent.

1. $5(2x + 6)$ and $3(3x - 2(x + 1)) + 6(x + 6)$ _____

2. $(x + 1)(x - 1)(x - 1)$ and $x^3 + x^2 - x - 1$ _____

3. $7 - (r - (3r - (5r + 4)))$ and $3(r - 1)$ _____

4. $-k\left(\frac{5}{k} + k^2\right) + (k^3 + 18)$ and 13 _____

5. $a^2 + b - c - (a^2 - b + c)$ and 0 _____

6. $(x + 1)^3$ and $x^3 + 1 + 3x(x + 1)$ _____

In 7 and 8, write an expression equivalent to $28rs + s^2$ using each property.

7. Commutative Property of Addition _____

8. Commutative Property of Multiplication _____

9. Use a CAS to verify that your expressions in 7 and 8 are equivalent.

In 10–12, create three equivalent expressions.

10. $25k^3 - 5k^2$ _____

11. $3r^4 + 60rs + 15s$ _____

12. $16w^2$ _____

13. Write a process you could use to convert the expression $3x + 5y$ into the equivalent expression $3(x - y) + 8y$.
