## 2-5A Lesson Master

**Questions on SPUR Objectives** See pages 125–127 for objectives.

**REPRESENTATIONS** Objective I

In 1 and 2, consider the expressions  $2x^2 + 1$  and  $(2x)^2 - 1$ .

1. Fill in the table. Then give two values of x for which  $2x^2 + 1 = (2x)^2 - 1$ .

х	$2x^2 + 1$	$(2x)^2-1$
-2		
-1		
0		
1		
2		

**2.** Give a counterexample which shows that  $2x^2 + 1$  is not equivalent to  $(2x)^2 - 1$ .

In 3 and 4, consider the expressions 2(4n-7)-(5n-7) and 3(n+2)-13.

**3.** Fill in the table. Do the expressions appear to be equivalent from the table?

х	2(4n-7)-(5n-7)	3(n+2)-13
-2		
-1		
0		
1		
2		

4. Simplify each expression to show whether or not they are equivalent.

In 5 and 6, consider the expressions  $2x^2 + 5(x + 1)$  and  $2(x^2 + x - 1) + 3(x + 1)$ .

**5**. Fill in the table. Do the expressions appear to be equivalent from the table?

х	$2x^2 + 5(x + 1)$	$2(x^2 + x - 1) + 3(x + 1)$
-2		
-1		
0		
1		
2		

6. Simplify each expression to show whether or not they are equivalent.