

Name _____

1-2A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 66–69 for objectives.

PROPERTIES Objective G

In 1 and 2, determine whether the relation is a function. Write *yes* or *no*.

1. $\{(1, 5), (2, 9), (3, 11), (-1, 5)\}$

2. $\{(7, 3), (5, 5), (3, -7), (7, -3)\}$

3. You kick a soccer ball down the field. The table at the right gives its height at various times after you kick it.

Time (seconds)	0	0.4	0.8	1.2	1.6
Height (feet)	0	7.7	10.2	7.7	0

a. Is *height* a function of *time*? _____ b. Is *time* a function of *height*? _____

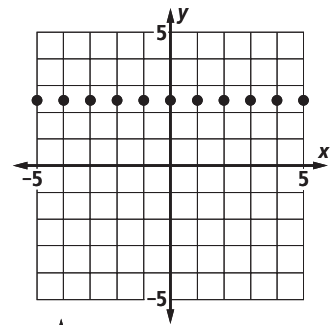
4. You babysit the two children next door several times over the summer. The table shows how much you were paid each time.

Hours	2	1	3	1.5	4
Pay	\$16	\$8	\$24	\$12	\$32

a. Is *pay* a function of *hours*? _____ b. Is *hours* a function of *pay*? _____

5. The formula $A = \frac{\sqrt{3}}{4} s^2$ gives the area of an equilateral triangle with side s . Is A a function of s ? Explain.

6. Does the graph at the right represent a function? Explain.



7. The graph at the right shows the SAT scores for ten high school seniors. The verbal score is on the x -axis, and the math score is on the y -axis. Is the relation a function? Explain.

