

Name _____

13-3A Lesson Master

Questions on SPUR Objectives

See pages 833–835 for objectives.

SKILLS Objective A

In 1-4, state which property is demonstrated.

1. $13 \cdot 1 = 13$ _____ 2. $2006 + -2006 = 0$ _____

3. $11.28 + 0 = 11.28$ _____ 4. $\frac{1}{19} \cdot 19 = 1$ _____

5. Elijah set up the following proof to solve $7x - 5 = 9$. Fill in the blanks of his proof.

Conclusions	What Was Done	Justification
$7x - 5 = 9$		a.
$7x - 5 + 5 = 9 + 5$		b. Addition Property of Equality
$7x + 0 = 14$	$-5 + 5 = 0$	c.
$7x = 14$	$7x + 0 = 7x$	d.
$\frac{1}{7} \cdot 7x = \frac{1}{7} \cdot 14$		e. Multiplication Property of Equality
$1x = 2$		f. Multiplicative Inverse Identity Property and arithmetic
$x = 2$	$1x = x$	g.

6. Fill in the blanks of the proof used to solve $(x - 6)^2 = 8x$.

Conclusions	Justification
$(x - 6)^2 = 8x$	a.
$x^2 - 12x + 36 = 8x$	b.
$x^2 - 12x + 36 - 8x = 8x - 8x$	c.
$x^2 - 20x + 36 = 0$	d.
$(x - 2)(x - 18) = 0$	e.
$(x - 2) = 0$ or $(x - 18) = 0$	f.
$x = 2$ or $x = 18$	g.

7. True or false. $(x - 6)^2 = 8x$ if and only if $x = 12$. _____