Name

5-4A Lesson Master	Questions on SPUR Objective See Student Edition pages 367–371 for objective
SKILLS Objective A	
n 1–4, solve the system using the linear combin	nation method.
$\begin{cases} 3m - 2n = 30 \\ -3m + 5n = -39 \end{cases}$	2. $\begin{cases} 4x + 3y = 2.6\\ 5x - 2y = 2.1 \end{cases}$
4x - y = -8 $-8x + 2y = 16$	4. $\begin{cases} 3a - b + 2c = 12\\ 3a + b + 4c = 9\\ a + 2b - 2c = 13 \end{cases}$
PROPERTIES Objective D	
5. For what value of k is the system $\begin{cases} 6x + ky = \\ 2x - 5y = \end{cases}$	⁹ / ₇ inconsistent?
6. Suppose $k = 10$ in the system in Question 5. a CAS, suppose you have stored the first equ equation as eq2. Tell which variable would be each of these expressions.	ation as eq1 and the second
a. -(1/3)eq1 + eq2	b. eq1 + 2eq2
c. eq1 + -3eq2	d. $0.5eq1 + eq2$
USES Objective F	
7. The Indian mathematician Mahavira made up 850 CE: "The price of nine citrons and seven 107; again, the mixed price of seven citrons a apples is 101. Oh you arithmetician, tell me q and a wood apple here, having distinctly sepa	fragrant wood apples is and nine fragrant wood juickly the price of a citron
3. A chemist mixes <i>A</i> ml of a 10% solution of aci solution. The resulting mixture has 800 ml of	
a. Write an equation relating <i>A</i> , <i>B</i> , and the to	otal amount of solution.
b. Write an equation relating the amounts of different solutions.	acid in the three