**v** (

7. WHAT IF? In Example 4, suppose it takes the kayaker 5 hours to travel 10 miles upstream and 2 hours to travel 10 miles downstream. The speed of the current remains constant during the trip. Find the average speed of the kayak in still water and the speed of the current.

_	XERCISES	HOMEWORK KEY	<ul> <li>= WORKED-OUT SOLUTIONS on p. WS1 for Exs. 17 and 41</li> <li>= TAKS PRACTICE AND REASONING Exs. 15, 22, 36, 44, 46, and 47</li> <li>= MULTIPLE REPRESENTATIONS Ex. 42</li> </ul>
(Sk	ILL PRACTICE		
	<b>1. VOCABULARY</b> Give an example of a linear system in two variables that can be solved by first adding the equations to eliminate one variable.		
	2. WRARNING Explain	-	= 2 Equation 1
	the linear system sho elimination method.		y = 22 Equation 2
<b>EXAMPLE 1</b> on p. 444 for Exs. 3–8	<b>USING ADDITION</b> Solve the linear system using elimination.		
	<b>3.</b> $x + 2y = 13$ -x + y = 5	4. $9x + y = 2$ -4x - y = -17	<b>5.</b> $-3x - y = 8$ 7x + y = -12
	6. $3x - y = 30$ -3x + 7y = 6	7. $-9x + 4y = -1^{7}$ 9x - 6y = 3	7 <b>8.</b> $-3x - 5y = -7$ -4x + 5y = 14
<b>EXAMPLE 2</b> on p. 445 for Exs. 9–15	USING SUBTRACTION Solve the linear system using elimination.		
	9. $x + y = 1$ -2x + y = 4	<b>10.</b> $x - y = -4$ x + 3y = 4	11. $2x - y = 7$ 2x + 7y = 31
	<b>12.</b> $6x + y = -10$ 5x + y = -10	<b>13.</b> $5x + 6y = 50$ -x + 6y = 26	14. $4x - 9y = -21$ 4x + 3y = -9
	<b>15. TAKS REASONING</b> Which ordered pair is a solution of the linear system $4x + 9y = -2$ and $11x + 9y = 26$ ?		
	<b>(A)</b> (-2, 4)	<b>B</b> (2, -4) <b>C</b>	(4, -2) ( <b>D</b> ) (4, 2)
EXAMPLE 3	<b>ARRANGING LIKE TERMS</b> Solve the linear system using elimination.		
on p. 445 for Exs. 16–22	<b>16.</b> $2x - y = 32$ y - 5x = 13	$\begin{array}{c} \textbf{17.} -8y + 6x = 36\\ 6x - y = 15 \end{array}$	<b>18.</b> $2x - y = -11$ y = -2x - 13
	<b>19.</b> $-x - y = 14$ x = 5y - 38	<b>20.</b> $11y - 3x = 18$ -3x = -16y + 3	33 <b>21.</b> $-5x + y = -23$ -y = 3x - 9
	<b>22. TAKS REASONING</b> Which ordered pair is a solution of the linear system $2x + y = 10$ and $3y = 2x + 6$ ?		
			(-4, 3) <b>D</b> (4, 3)