Skill check:	
Solve By using substitution	
y = x - 8 y = -2x - 14	

The perimeter of a rectangle is 36 ft? The length is 2 less than 3 times the width? What is the length? What is the width?

5-3 Solving system of	
linear equations by	
elimination	
Cilifination	

lving when efficients are opposites		
Example 1: x + 3y = -2 x - 3y = 16		
Steps: 1.) Are the coefficients of the y terms opposites		
2.) Add the equations		
3.) Solve for x 4.) Substitute:		

	_
Practice:	
1.) 2x - y = 9	
4 - 1 04	
4x + y = 21	
2.) $-5x + 2y = 13$	
5x + y = -1	
0X + y = -1	
3.) $3x + 4y = -6$	
5.) 5x · +j	
7x + 4y = -14	
-	

	_	
Skill che	eck	
Solve h	y using	
OOIVC K	y using	
elim ina	ition:	
3x - y = -3x + 4y	14	
	17	
-3x + 4y	/ = 16	

Using elimintation	
when the coefficient is	
a different number:	
Evample 2:	
Example 2:	
-6x + 5y = 25	
-2x - 4y = 14	
-2x - 4y - 14	
1.) Find a number to	
multiply:	
0 \ 0 al al 4la a a a a a 4la a a	
2.) Add the equations	
2010 000 000 0	
3.) Solve for y	
4.) Substitute:	
1 22	
The state of the s	
Duration	
Practice:	
1.) 3x + y = 11	
1.) 3x + y = 11	
1.) 3x + y = 11	
1.) 3x + y = 11	
1.) 3x + y = 11	
1.) 3x + y = 11 6x + 3y = 24	
1.) $3x + y = 11$ 6x + 3y = 24 2.) $4x - 5y = -19$	
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1.) $3x + y = 11$ 6x + 3y = 24 2.) $4x - 5y = -19$ -x - 2y = 8	
1.) $3x + y = 11$ 6x + 3y = 24 2.) $4x - 5y = -19$	
1.) $3x + y = 11$ 6x + 3y = 24 2.) $4x - 5y = -19$ -x - 2y = 8 3.) $5y = 15 - 5x$	
1.) $3x + y = 11$ 6x + 3y = 24 2.) $4x - 5y = -19$ -x - 2y = 8	
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Real life:	
You buy 8 hostas, and 15	
daylillies for \$193. Your	
fuland buye 2 bootes and 40	
friend buys 3 hostas and 12	
daylillies for \$117. Write and	
dayiilles for \$117. Write and	
solve a system of linear	
equations to find the cost of	
a San Granden	
each daylilly:	
'	



