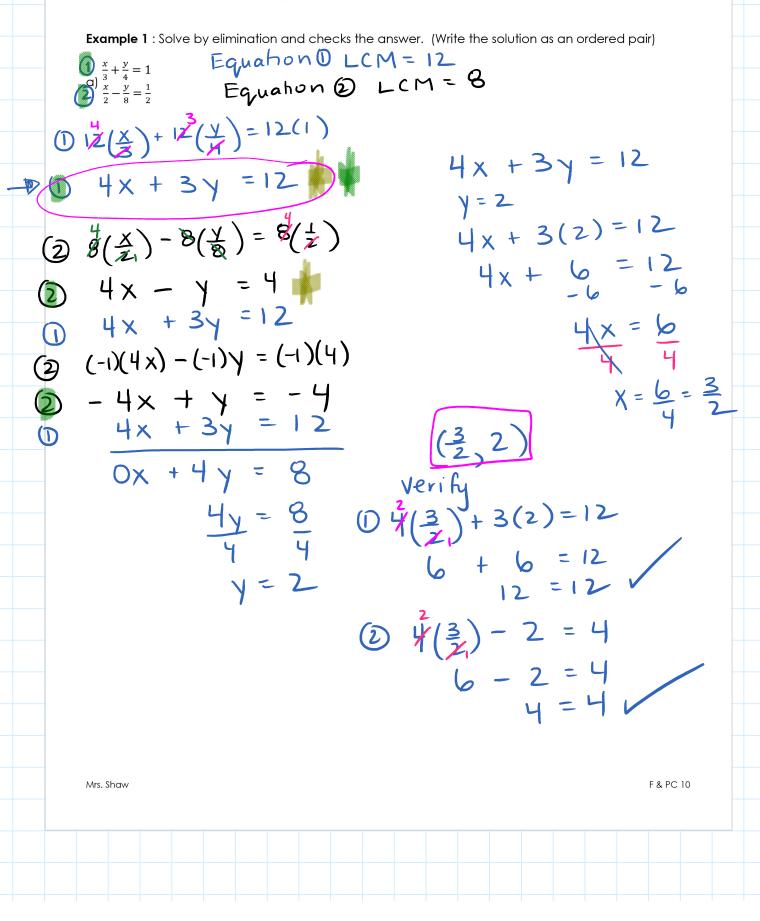
	.3 Part 2									
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6.3 Solving a Linear System by Elimination – Part 2



b) During a clothing sale, two sweaters and four coats cost a total of \$392. Three sweaters and a coat cost \$163. How much does each garment cost? Here is a linear system that represents this situation:

2s + 4c = 3923s + c = 163s= cost of sweater c= cost of coat 2s + 4c = 392solve elimination $(\bar{2})$ 35 + c = 163

(2)
$$(-4)3s + (-4)c = (-4)(163)$$

(2) $-12s - 4c = -652$
(2) $-12s - 4c = 392$
(2) $-10s + 0c = -260$
 $-10s = -260$
 $-10s = -260$
 $-10 = -10$
 $s = 26$
Sweater costs \$26
coat costs \$85

Practice: p.437 #6ab, 7cd, 12ab; p.441 #4b

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2(26) + 4c = 39252 + 4c = 392 -52 52

4<u>c</u> = <u>340</u> 4

(= 85