3) Jimmy and Gabriella are selling cookie dough for a school fundraiser. Customers c chocolate chip cookie dough and packages of double chocolate cookie dough. Jim of chocolate chip cookie dough and 12 packages of double chocolate cookie dough Gabriella sold 4 packages of chocolate chip cookie dough and 3 packages of doubl dough for a total of $80. Find the cost each of one package of chocolate chip cook package of double chocolate cookie dough.

Let x = choc chip dough

Let y = double choc chip dough

$14x + 12y = 304$

$4x + 3y = 80$ (×−4) $-16x - 12y = -320$

$14x + 12y = 304$

① $4x + 12y = 304$

$4(8) + 12y = 304$

$-112 \quad -112$

$12y = 192$

$\frac{12y}{12} = \frac{192}{12}$

$y = 16$

$\frac{-2x}{-2} = \frac{-16}{-2}$

$x = 8$

4) Bill and Jasmine are selling fruit for a school fundraiser. Customers can buy small large boxes of oranges. Bill sold 9 small boxes of oranges and 14 large boxes of or $397. Jasmine sold 1 small box of oranges and 7 large boxes of oranges for a total cost each of one small box of oranges and one large box of oranges?

Given

Find: the cost of each.

Let x = cost of small box of oranges

Let y = cost of large box of oranges

① $9x + 14y = 397$

② $x + 7y = 153$

Isolate x in ②

$x + 7y = 153$

$-7y \quad -7y$

$x = -7y + 153$

Substitute in ①

$9(-7y + 153) + 14y = 397$

Solve each system by elimination.

1) $5x - 4y = 28$
$3x - 9y = 30$

$\times(3) \rightarrow 15x - 12y = 84$

$\times(-5) \rightarrow -15x + 45y = -150$

$\frac{33y}{33} = \frac{-66}{33}$

$y = -2$

Substitute in (1)

$5x - 4y = 28$

$5x - 4(-2) = 28$

$5x + 8 = 28$ $-8 \quad -8$

$\frac{5x}{5} = \frac{20}{5}$

$x = 4$

Check in (2)

L.S. $3x - 9y$

$3(4) - 9(-2)$

$12 + 18$

30

R.S. 30

pt $(4, -2)$

Solve each system by elimination.

2) $-5x + 5y = 5$ ×8
$8x + 8y = 24$ ×5

$-40x + 40y = 40$
$40x + 40y = 120$

$80y = 160$

$\frac{80y}{80} = \frac{160}{80}$

$y = 2$

substitute in ①

$-5x + 5y = 5$

$-5x + 5(2) = 5$

$-5x + 10 = 5 - 10$

$\frac{-5x}{5} = \frac{-5}{5}$

$x = 1$

check in ②

1.5	0.5
$8x + 8y$	24
$8(1) + 8(2)$	
$8 + 16$	
24	

∴ POI = (1, 2)

Solve each system by elimination.

3) $3x - 5y = 11$
$8x - 4y = 20$

(4) $12x - 24y = 44$
(-5) $-40x + 20y = -100$

finish thru #6