

Class QZ 20

Solve

Addition Nethod

$$-3(3x + 4y = 2)$$

$$3(2x + 5y = -1)$$

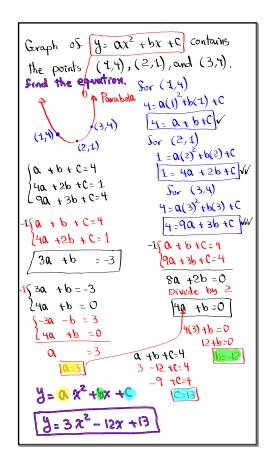
$$2x + 5(-4) = -1$$

$$2x - 5 = -1$$

$$2x = 4$$

$$2x = 4$$
Sinal Ans (2,-1)

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Solve
 (5x -2y-47=3
                      15x -24-47=3
 13x +3y +2=-2
                     2 (3x +3y +2Z=-2
 1-2x +5y +3Z=3
                       \( 5x -2y -47=3
                       26x + 6y +47=-4
35x -24 -4Z=3
4/-2x +5y +3Z=3
                         11x +44=-1
 (15x - 6y -127=9
                      111x +47 = -1
 [-8x +20y +12=12
                           1+24 = 3
2=3-24
  7x +14y =21
   Divide by 7
                     11(3-24) +44 =-1
    2 + 24 = 3
                      33-224 +44 = -1
                      -184: -1-33
x+2(17)=3
                        -18y =-34
                           y=34 y=17
 3x + 3y + 2z = -2
                         10 +27= 2
                        2=-2-103
Ordered-Triple
 (x, y, z) = (-\frac{7}{9}, \frac{17}{9}, -\frac{8}{3})
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```
Sam has 17 Coins.

P-> # 05 Pennies

She has 73¢

P-> # 05 Nickels

Pennies, Nickels, and Dimes only.

# 05 dimes is 1 Sewer than # 05 ratkels.

How many of each?

P+N+D=17

P+5N+10D=73

-N+D=-1

P+N+D=-1

P+N+D=-1

P+N+D=-1

P+N+D=-1

P+N+D=-1

P+N+D=-1

P+N+D=-1

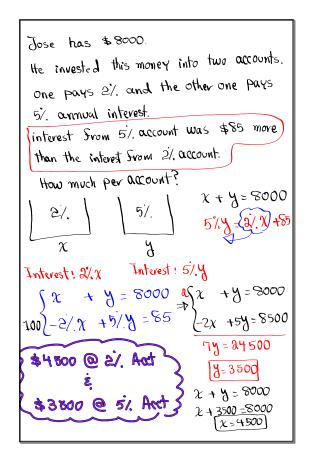
P+N+D=-1

P+SH+=-1

P+N+D=-1

P+SH+=-1

P+SH
```



```
Maria has $10,000.
She opened up 3 accounts and
 earned $380 in Simple interest after
 one Year.
 These accounts Paid 2/, , 3/, , and 5/.
 annual interest.
The amount She invested in 5% account
was the Same the total invested in the other
2 Accounts. How much per account?
\chi \rightarrow 4 in 2%. \chi + \chi + \Xi = 10000
y → $ in 3/. (00) a/.x + 3/.y +5/.Z=380
Z - $ in 5%. \ Z = \chi + \chi
 \begin{cases} x + y + Z = 10000 \\ 2x + 3y + 5Z = 38000 \\ -x - y + Z = 0 \end{cases} \xrightarrow{2x + y + Z = 10000} \frac{2}{2} = 10000
) x + y + 5000 = 10000
                                         Z=5000
2x +3y +5(5000)=38000
                                 $2000 @ 2/.
                                  $3000 @ 3/
 \int x + 9 = 5000 \Rightarrow x = 2000
                                  $5000 @ 5/.
 (2x +34 = 13000 4=3000
```

$$S(x) = 2x^{2} - 5x + 3$$

$$S(x) = 2x^{2} + 5x - 3$$

$$Sind$$

$$(S + 9)(x) = S(x) + 9(x) = 2x^{2} - 5x + 3 + 2x^{2} + 5x + 3$$

$$= 4x^{2}$$

$$(S - 9)(x) = S(x) - 9(x) = 2x^{2} - 5x + 3 - (2x^{2} + 5x + 3)$$

$$= 2x^{2} - 5x + 3 - 2x^{2} - 5x + 3$$

$$= -10x + 6$$