WRITING PROJECT HEI

 $\bigcirc x^{2} + 5x - 36 = 0$  (x+9)(x-4) = 0 x = -9 or x = 4  $x \in \{-9, -4\}$ 

a=1, b=5, c=-36

62-420=52-4(1)(-36)

1211 - Online

$$\begin{array}{l} x^{2} + 5 \times = 36 \\ x^{2} + 5 \times = 36 \\ x^{2} + 5 \times = 5 \\ (x + 5)^{2} = 36 + 25 \\ (x + 5)^{2} = 36 \\ (x + 5)^{2} =$$

1

$$= 25 \pm 144 = 169$$

$$x = -\frac{5 \pm \sqrt{5243c}}{23}$$

$$= -\frac{5 \pm \sqrt{69}}{2(1)} = \frac{2}{2} = 4 \sqrt{x \in 2-9, \sqrt{3}}$$

$$= -\frac{5 \pm 13}{2} \sqrt{3-9} = -9$$

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121 ONLINE WP+1

(2)  $10x^2 + 11x - 6 = 0$ FACTORING 10(-6)=-60 -60= 10(-6) = 5(-12) = 15(-4) <- 15-4=111 10x2+15x-4x-6=0 5x(2x+3)-2(2x+3)=0 (2x+3)(5x-2)=02×+3=0 02 5×-2=0 2x = -3 5x = 2 $x = -\frac{3}{2}$   $x = -\frac{2}{5}$ x 6 2-32, 32?

$$\begin{aligned} (x+y) &= (x+y) \\ ($$

$$\begin{array}{c} x_{1} + \frac{11}{20} = \pm \sqrt{\frac{361}{200}} = \pm \frac{19}{20} \\ x_{2} + \frac{11}{20} = \pm \sqrt{\frac{361}{200}} = \pm \frac{19}{20} \\ x_{2} + \frac{11 \pm 19}{20} = \frac{3}{20} = \frac{3}{2} \\ x_{2} + \frac{30}{20} = -\frac{3}{2} \\ x_{2} + \frac{5}{2} + \frac{3}{2} \\ x_{3} + \frac{5}{2} \\ x_{5} + \frac{3}{2} \\ x_{5} + \frac$$

$$QF?$$

$$3=10, b=11, c=-6$$

$$6^{2} + 3c = 11^{2} + 4(10)(-6)$$

$$= 121 + 3 + 40 = 361$$

$$x = -11 \pm \sqrt{361} = -11 \pm 19$$

$$20^{2} = -3^{2}$$

$$20^{2} = -3^{2}$$

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$$\chi \in S = -3^{2}, -3^{2}S$$

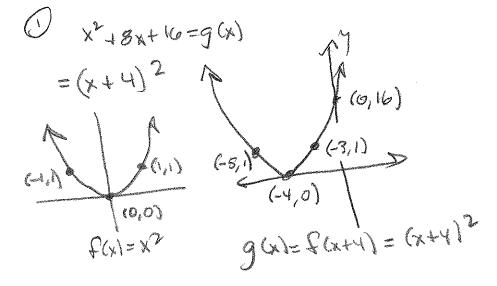
121 ONLINE

wp#1

(3)  $x^2 - 8x - 10 = 0$ QFS a=1, b=-8, c=-10 62-420= (-8)2-4(1)(-10) = 64 + 40 = 104 2/104 2/52 2/52 50, VIOY = 2 126 x= <u>8±2/66</u>=  $= 2(4\pm\sqrt{26})$ =  $4\pm\sqrt{26}$  $\times 694-\sqrt{26}, 4+\sqrt{26}$ 

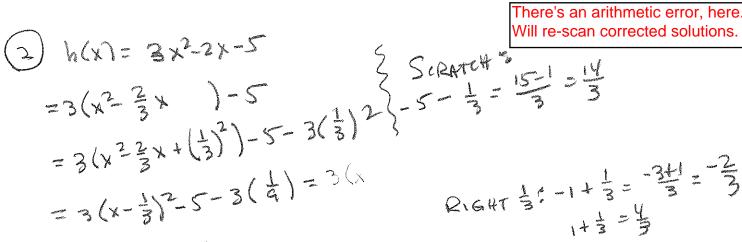
$$CT3$$
:  
 $x^{2} Bx = 10$   
 $x^{2} Bx + 4^{2} = 10 + 16$   
 $(x-4)^{2} = 26$   
 $x-4 = \pm \sqrt{26}$   
 $x = 4 \pm \sqrt{26}$   
 $x \in \{4-\sqrt{26}, 4+\sqrt{26}\}$   
Here's one where completing  
the square is the most officient.

WP#2 ONLINE 121

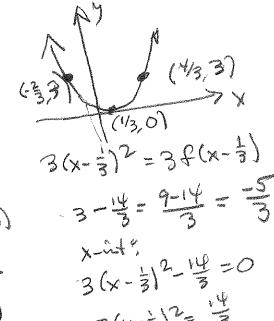


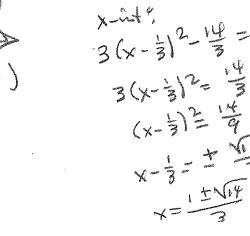
an arithmetic error, here. rected solutions.

キューズ



= 3 (x-3)2-14 6(1,3) Jan, 1) (-1,3) (0,0) (0,01 3FG1= 3 x2





F(x) = x2

