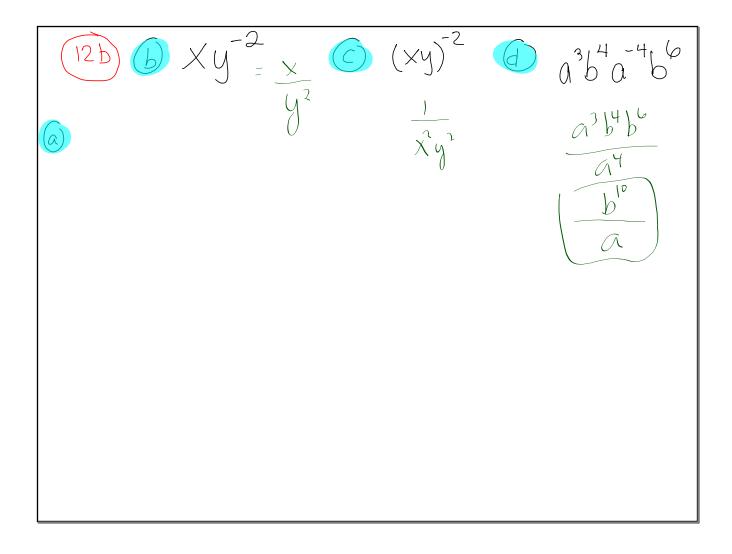
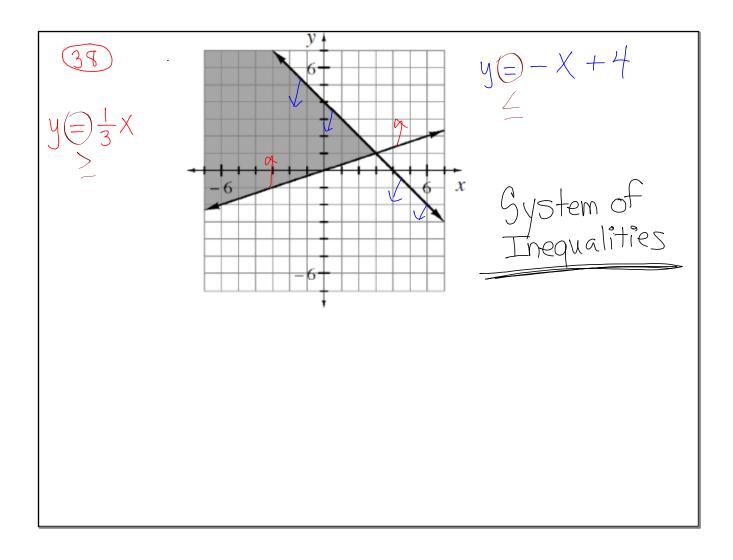
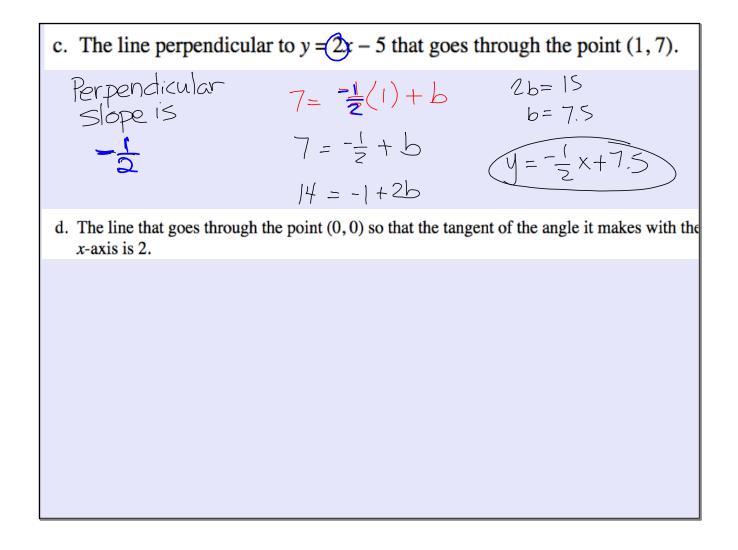


b)
$$100,000 = 10,000 (1.025)^{4}$$
 divide by $110,000$
 $\frac{20}{11} = (1.025)^{5}$
Use GDC to find intersection
between $y = \frac{20}{11}$ and $y = 1.025^{5}$
 $x \approx 24.22$ years
c) $5^{e/o}$ depreciating $y = 182,500 (.045)^{2}$
 $x \approx 164,706.725$



$$(-2,0) (0,1)$$
a) $slope = \frac{\Delta y}{\Delta x} = \frac{1-0}{0-2} = \frac{1}{2}$
b) $slope = \frac{\Delta y}{\Delta x} = \frac{-2}{0-2} = \frac{-2}{1}$
c) $relationship between slope and $\perp slope$?$





$$(x+4)(2x-5) = 0$$

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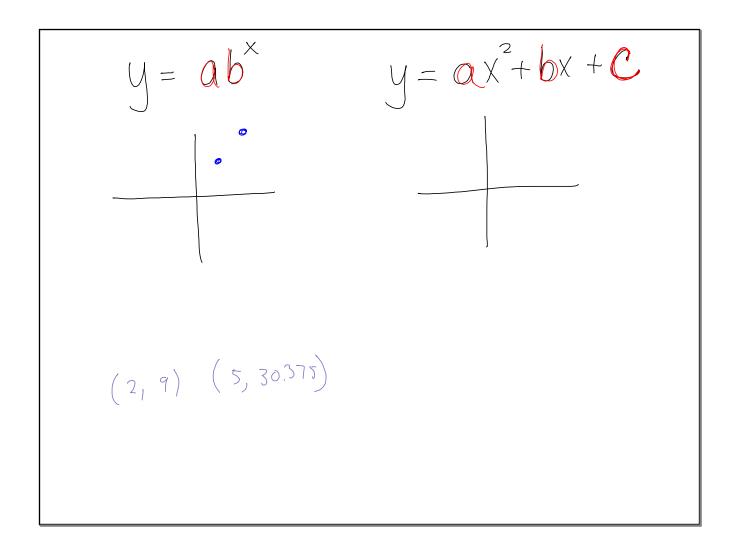
$$(x+4) = 0$$

$$(x+4) = 0$$

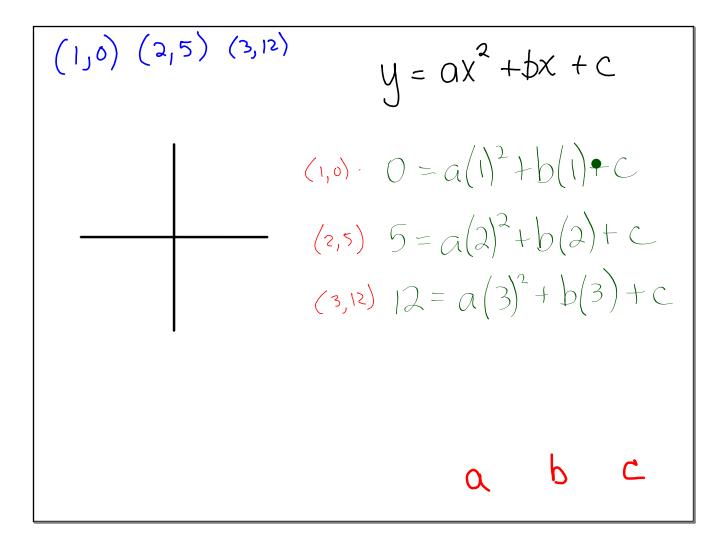
$$(x+4) = 2 \cdot 5$$

$$(x+1)(2x-7)(3x+4)(x-13)(x+7) = 0$$

$$(x+1)(2x-7)(3x+4)(x-13)(x+7) = 0$$

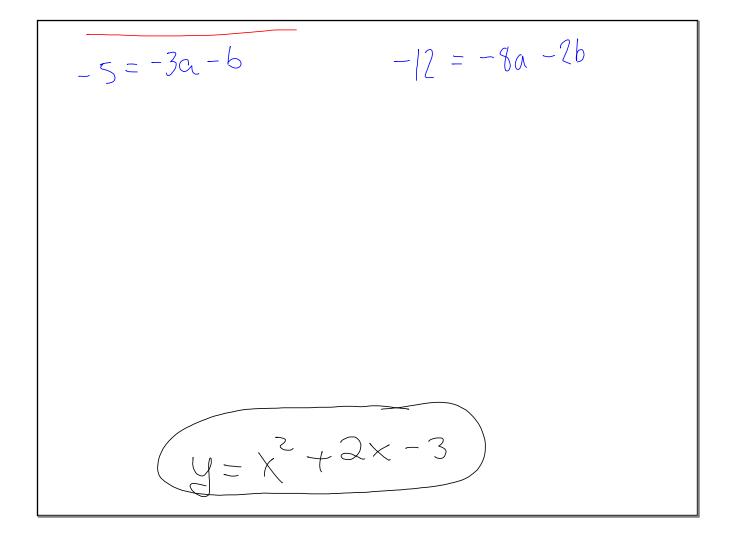


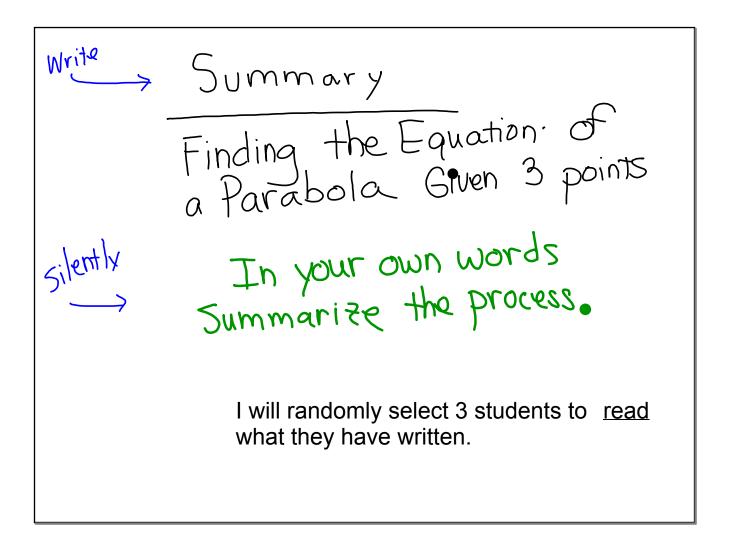
Use 3 by 3 solving skills to help us create quadratic functions. We'll do $\underline{61}$ 05 a class Page 274

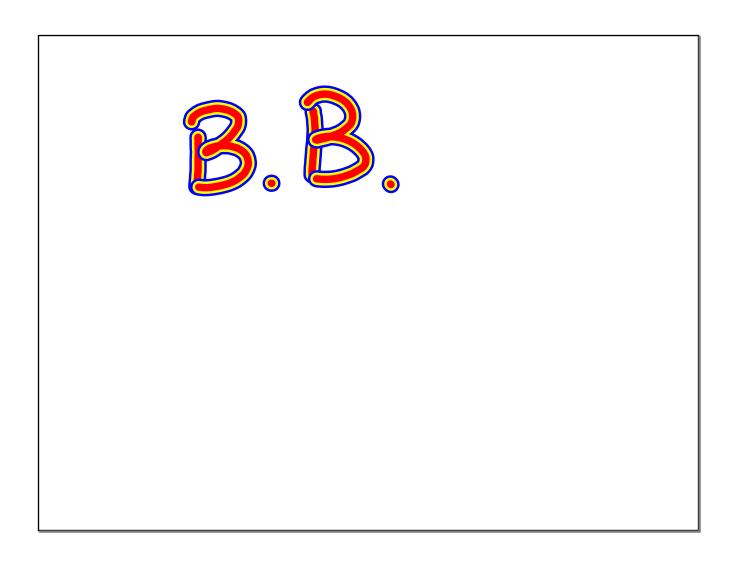


A
$$0 = \alpha (1)^2 + b(1) + C \Rightarrow 0 = \alpha + b + c$$

B $5 = \alpha (2)^2 + b(2) + C \Rightarrow 5 = 4a + 2b + c$
c $|2 = \alpha (3)^2 + b(3) + C \Rightarrow |2 = 9a + 3b + c$
Eliminate C $A + 1B$ Eliminate C $C + 1B$
B $0 = a + b + c$
B $-5 = -4a - 2b - c$
B $-5 = -4a - 2b - c$
D $-5 = -3a - b$
 $7 = 5a + b$
 $7 = 5a + b$
 $7 = 5a + b$
 $2 = 2a$ plug $a = 1$ and $b = 2$ for $a = 2$
Plug $a = 1$ and $b = 2$ for $a = 4$
 $0 = (1) + (2) + c$
 $y = ax^2 + bx + c$
 $y = x^2 + 2x - 3$







Practice the method on 64 a = Be organized/Practice good communication. = create separation between sections of your work.

$$\begin{array}{c} (3, 10) & (5, 36) & (-2, 15) & y = 0 \\ 10 = 0 \\ (3)^{2} + b(3) + C \\ 3b = 0 \\ (5)^{2} + b(5) + C \\ 15 = a(-2)^{2} + b(-2) + C \\ \end{array}$$

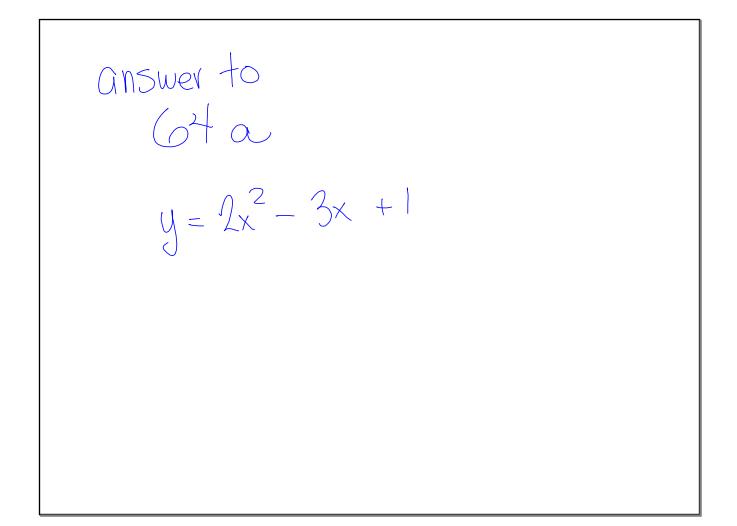
$$\begin{array}{c} 10 = 9a + 3b + C \\ 3b = 25a + 5b + C \\ 15 = 4a - 2b + C \\ 15 = 4a - 2b + C \\ \end{array}$$

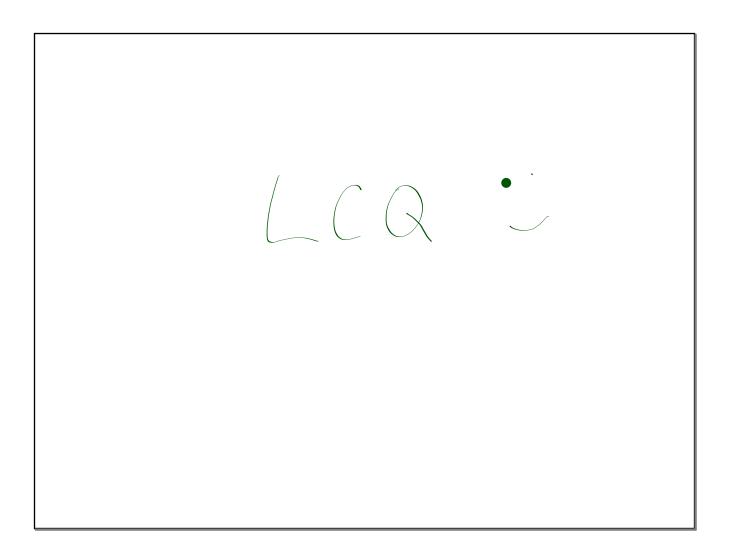
$$I = |0 = 9a + 3b + C = II = 3b = 25a + 5b + C$$

$$II = -1(3b = 25a + 5b + C) = -1(15 = 4a - 2b + C)$$

$$III = -1(15 = 4a - 2b + C)$$

$$EqI = -1bq - 2b = -1(eqII) = -1(eq$$





Assignment

6.....80-83, 85b, 87bd

