

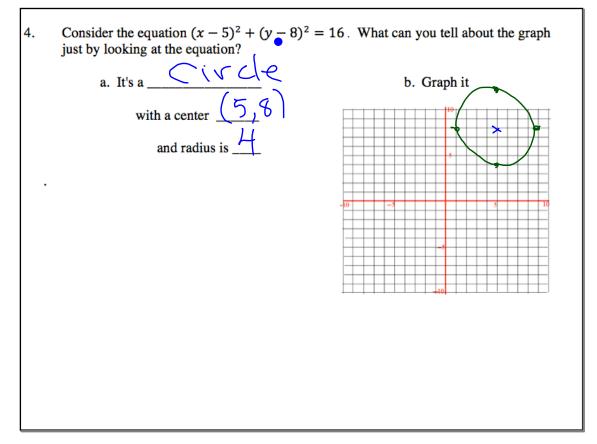
$$y = (x-8)^{2} - 5$$

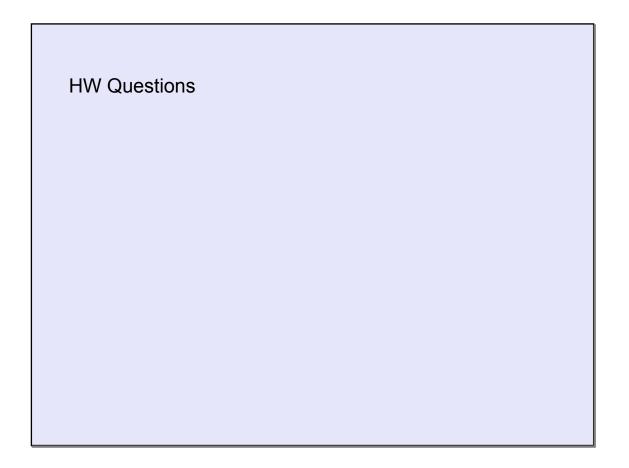
$$(x-8)^{2} - 5 = 0$$

$$(x-8)^{2} = 5$$

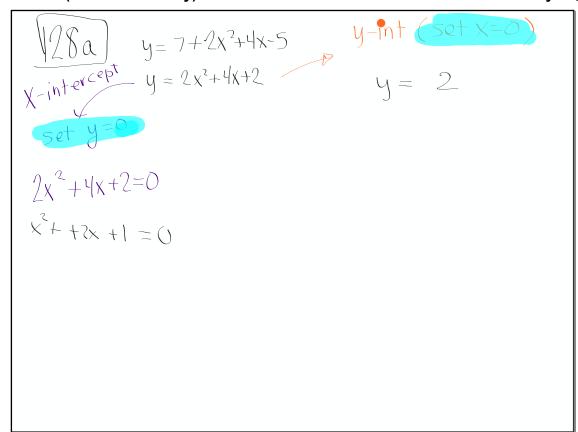
$$x-8 = \pm 5$$

$$(x-8)^{2} = 5$$

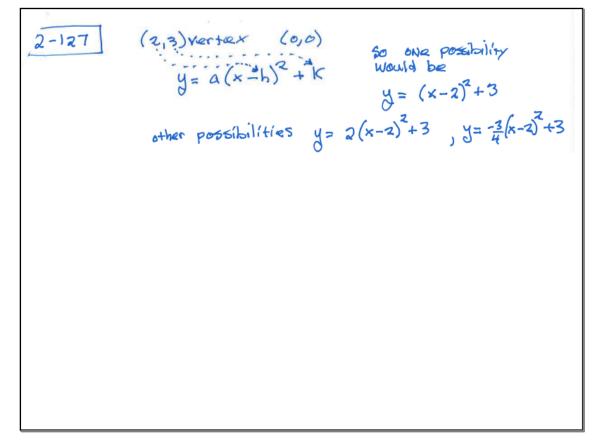




Notes from Class (Ch 2 Review Day)

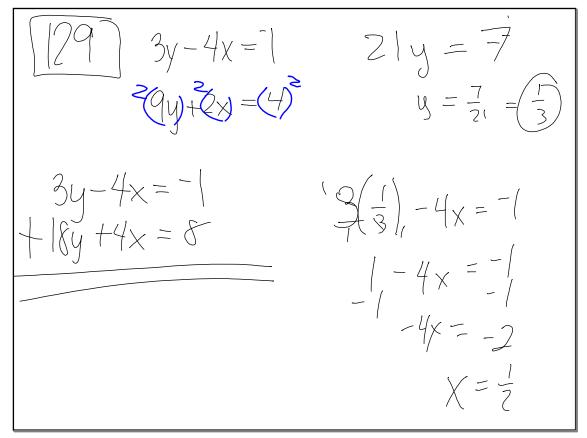


$$\begin{array}{c} \hline 129 \\ 9y + 2x = 4 \\ y = 7 \\ y = \frac{1}{21} \\$$



$$\begin{array}{c} 129 \\ 3y - 4x = 1 \\ 9y + 2x = 4 \\ -3 \\ + 18y + 4x = 8 \end{array}$$

Notes from Class (Ch 2 Review Day)



$$\frac{12-129}{y} = 2x^{2} + 4x - 5$$

$$y = 2x^{2} + 4x + 2$$

$$y = 2x^{2} + 4x^{2} + 2$$

$$x = 2x^{2} + 4x^{2} + 2$$

January 30, 2019

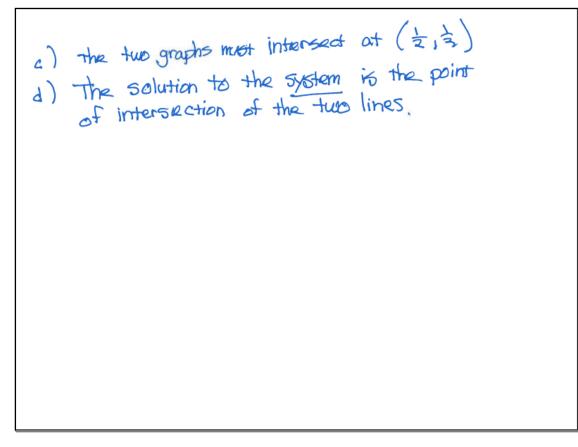
a)
$$y = 7 + 2x^{2} + 4x - 5$$

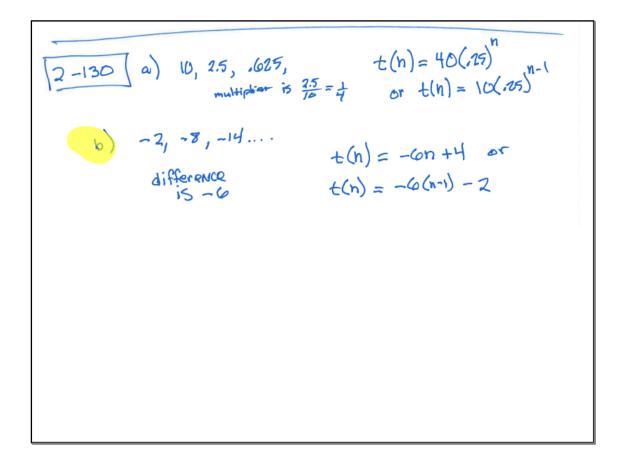
 $y = 2x^{2} + 4x + 2$
 $y = 2x^{2} + 4x + 2$
 $y = 2x^{2} + 4x + 2$
 $0 = 2(x^{2} + 4x + 2)$
 $0 = 2(x^{2} + 2x + 1)$
 $0 = 2(x^{2} + 2x + 1)$
 $0 = 2(x + 1) \times x + 1$
 $y = 2(x + 1) \times x + 1$
 $y = 2(x + 1) \times x + 1$
 $y = 2(x + 1) \times x + 1$
 $y = 2(x + 1) \times x + 1$
 $y = 2(x + 1) \times x + 1$
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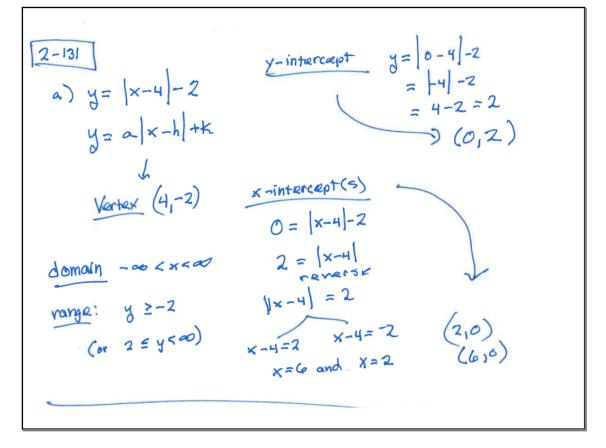
2-129

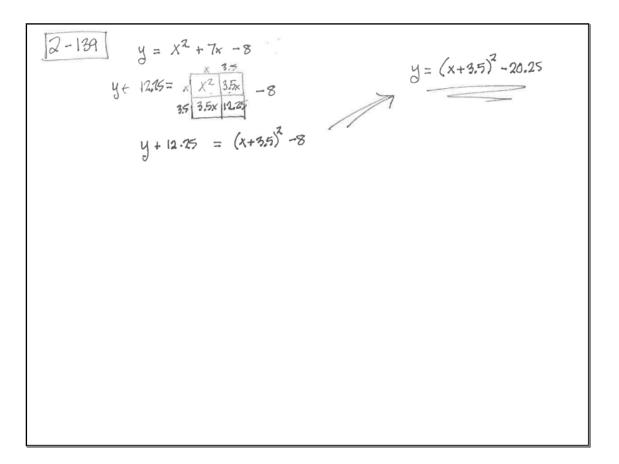
$$3y - 4x = -1$$

 $9y + 2x = 4$
a) both linear so parent
of each is: $y = x$
 $3y - 4x = -1$
 $+ 18y + 4x = 8$
 $21y = 7$
 $3y - 4x = -1$
 $+ 18y + 4x = 8$
 $21y = 7$
 $3y - 4x = -1$
 $-4x = -1$
 $1 - 4x = -1$
 $1 - 4x = -1$
 $-4x = -2$
 $x = \frac{3}{y} = \frac{1}{2}$
 $(\frac{1}{2}, \frac{1}{3})$

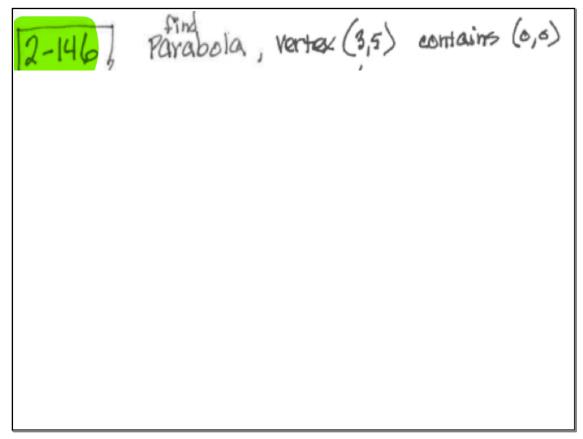




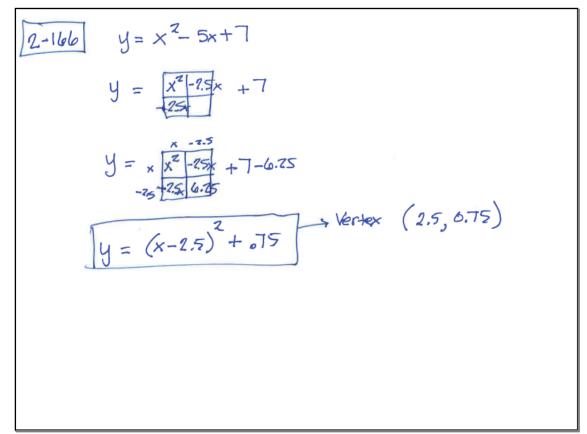




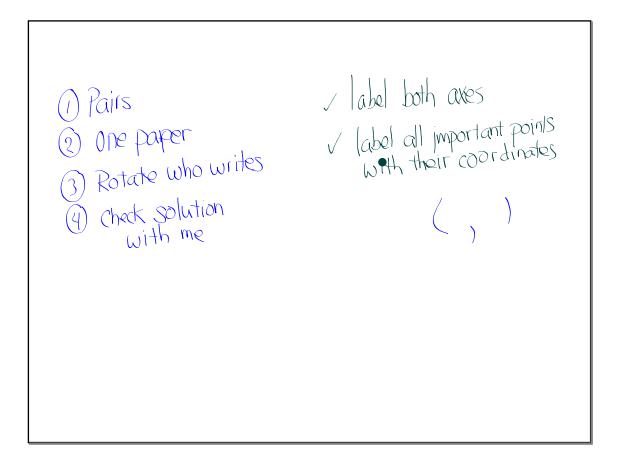
January 30, 2019



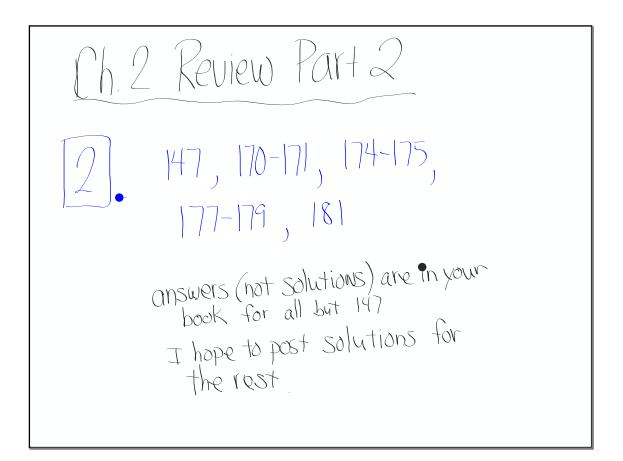
Parabola, vertex (3,5) contains (0,6)(3,5) contains (0,6)(3,5) $y = a(x-3)^2 + 5$ (3,5) $0 = a(0-3)^2 + 5$ (3,5) $0 = a(-3)^2 + 5$ (3,5) $0 = a(-3)^2 + 5$ (3,6) $0 = a(-3)^2 + 5$ 0= 9a+5 a= -5 $y = \alpha(x-h)^2 + \xi$



<u>Agenda</u> (to Review) D Pairs - Modeling Problem Ch. 2 Review Part 1 -hopefully you can finish this in class -check your answers - Staple in your HW packet (h. Review - Part 2 - You won't be twining this in, but be smart..... do It and check answers



Start (h.? Review - Part 1 - Check answers as you work - Attach to the packet when finished when finished-Start Pa(+2) -



Ch. 2 Review - Part I Name_ - Per. 1) Write a transformation equation, T(x), for each situation a) $y=\sqrt{x}$ after it has been translated 2 left, 5 down, and compressed vertically by 6.2 b) y = 5 " after it has been translated 16 right, 3 down, and stretched vertically by 4. c) $y = \frac{1}{x}$ after it has been translated down 100 and 200 UP: (2) what is the domain of $y = \frac{1}{x-y}$? _____ range _ (not solve anything. Just factor). 10x2+11x-6 (3)

Triangulum (M33) wants to find the exponential function that passes through the points (2, 75.6) and (6, 97977.6). Assuming that the graph has an asymptote at y=0, what is the equation of the function? Show all of your work! y = ab y = ab75.6= ab 97977.6= ab 97977.6= $\frac{156}{b^{7}}$. b^{64} $97976 = 75.6 b^4$ $b^4 = \frac{97977.6}{75.6}$ $Q = \frac{75.6}{12}$

