

Notes from 2.2.2 Day 1

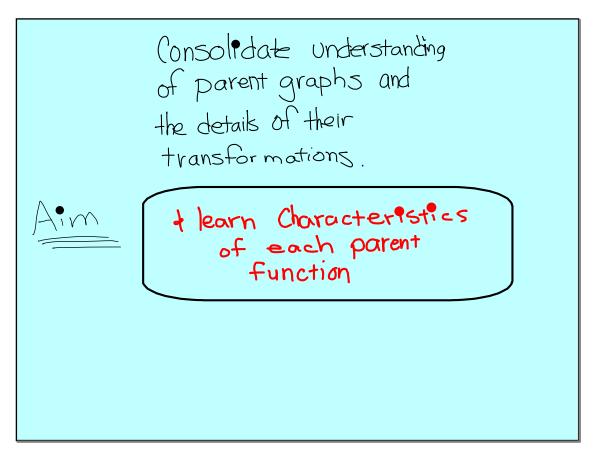
Example: $9x^2 - 4 = (3x + 2)(3x - 2)$	
1. $4x^2 - 1 =$	2. $x^2 - 9 =$
3. $36x^2 - 9 = 9(4x^2 - 1)$ $9(x^2)$	4. $100x^2 - 81 =$
5. $25x^2 - 4 =$	6. $81x^2 - 121 =$

(x + 13) (x - 13)	16 (3x - 1) (3x - 1)	(x - 4) (x + 4)	(6x + 5) (6x - 5)	(25 – 4x) (25 + 4x)	(x + 1) (x - 1)
THE	SUM	OFA	PRO	QUO	DUC
(9 + x) (9 - x)	9 (2x - 1) (2x + 1)	(x + 7) (x - 7)	(2x+1)(2x-1)	(9x + 1) (9x - 1)	(x + 2) (x - 2)
TOF	TIE	THE	NTA	SUM	AND
(10 - x)(10 + x)	(5x + 3) (5x - 3)	(x – 5) (x + 5)	(8x + 1) (8x - 1)	(11x - 7) (11x + 7)	(x - 6) (x + 6)
WAS	DIF	HAS	FER	MAN	NER
(x + 18) (x - 18)	(10x - 9) (10x + 9)	(x - 3) (x + 3)	(5 <i>x</i> – 2) (5 <i>x</i> + 2)	(7x + 11) (7x - 11)	(x + 8) (x - 8)
ENC	THA	TIS	MYP	EOF	THE
(x + 15) (x - 15)	(9 <i>x</i> - 11) (9 <i>x</i> + 11)	(x + 9) (x - 9)	(3x + 2) (3x - 2)	(7x - 4) (7x + 4)	(x + 9) (x - 9)
SQU	ROB	ARE	ROO	LEM	TS.

15. The factored form of the difference of the two squares is

7.
$$x^{2} - 16 =$$

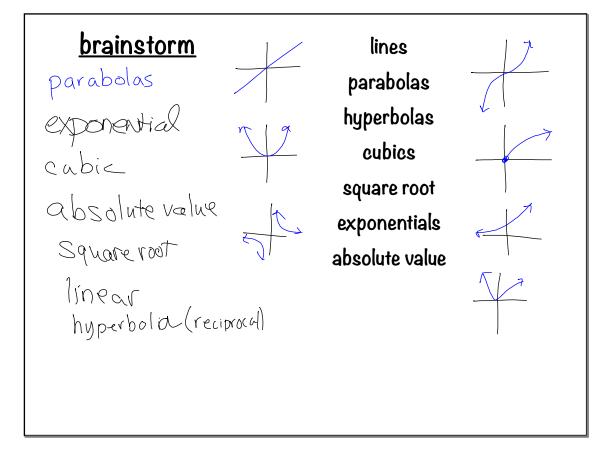
8. $144x^{2} - 16 =$
9. $x^{2} - 25 =$
10. $625 - 16x^{2} =$
11. $100 - x^{2} =$
12. $x^{2} - 36 =$
13. $121x^{2} - 49 = (11x + 7)(11x - 7)$
14. $49x^{2} - 16 =$
 $(11x)^{2} - (7)^{2}$

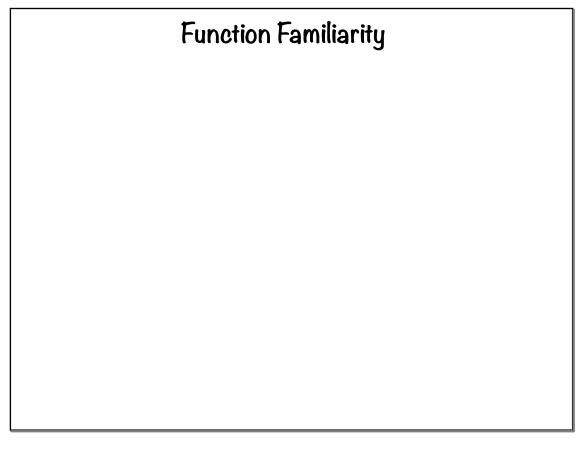


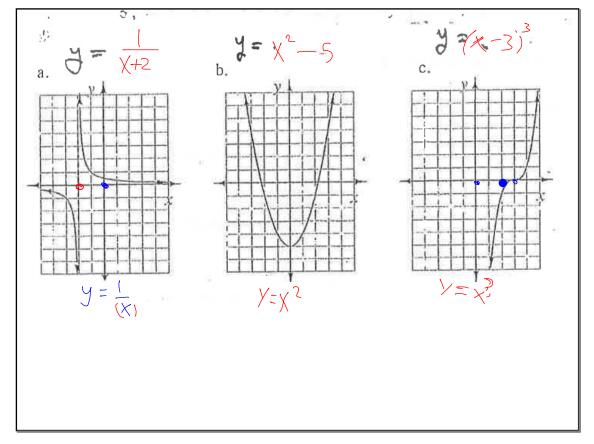
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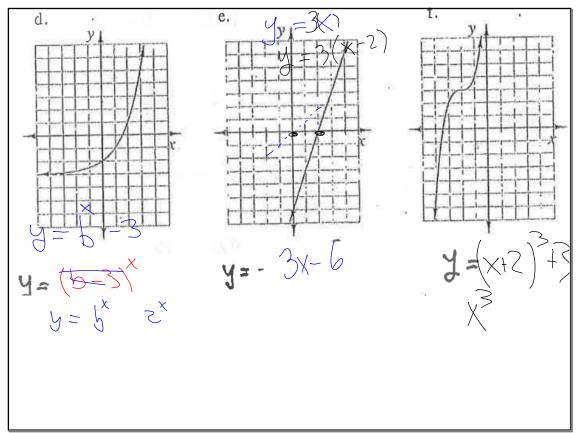
<u>Class Brainstorm</u>

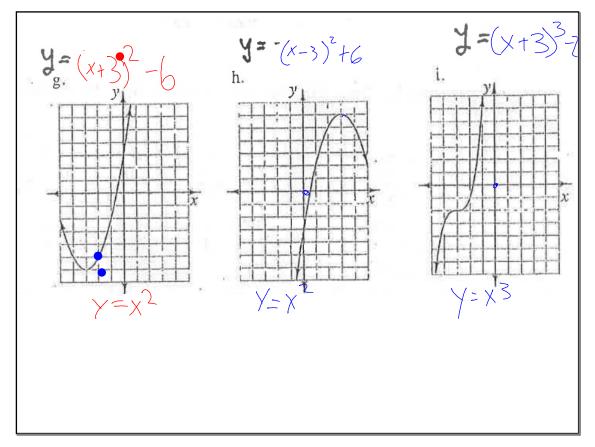
List of all of the families of functions that you have learned about so far in your study of Algebra

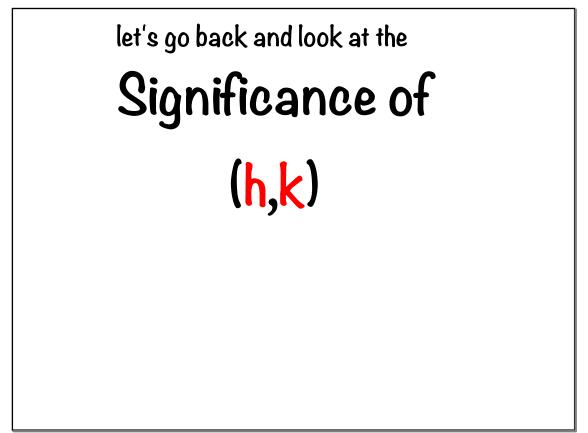


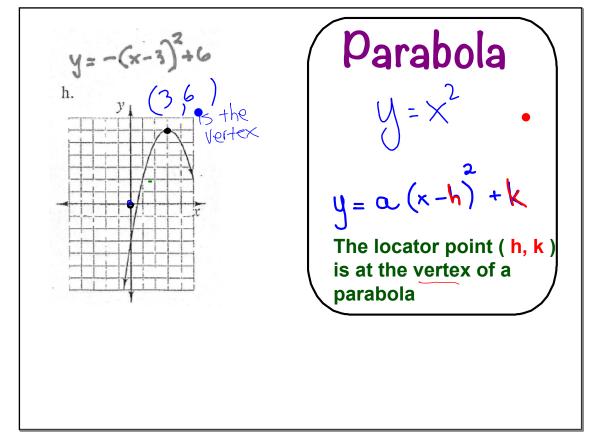




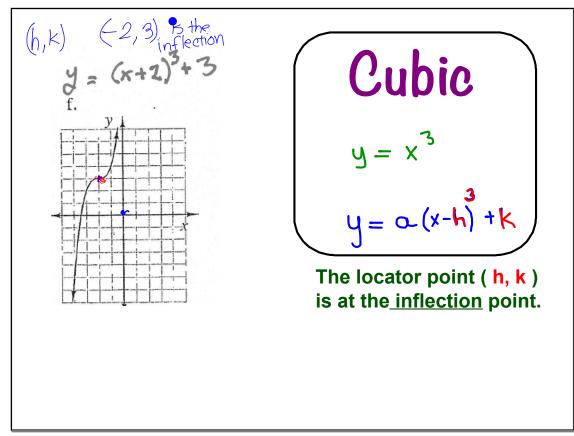


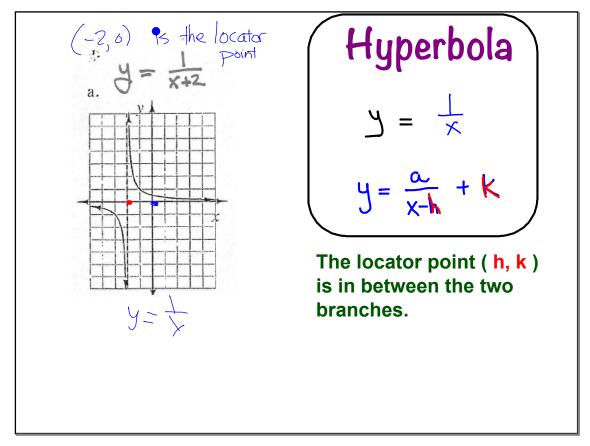


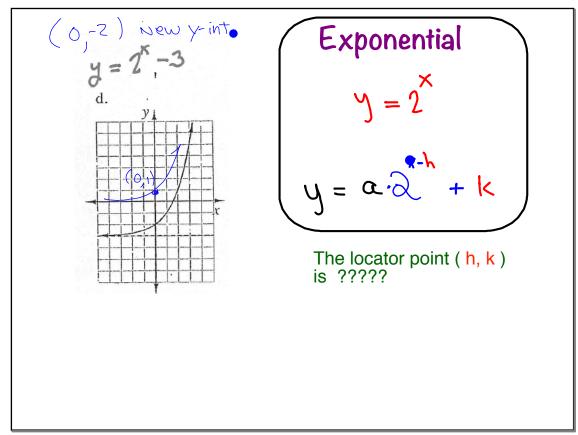




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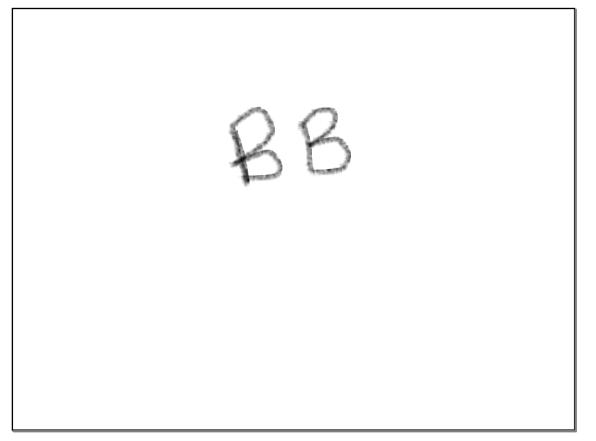


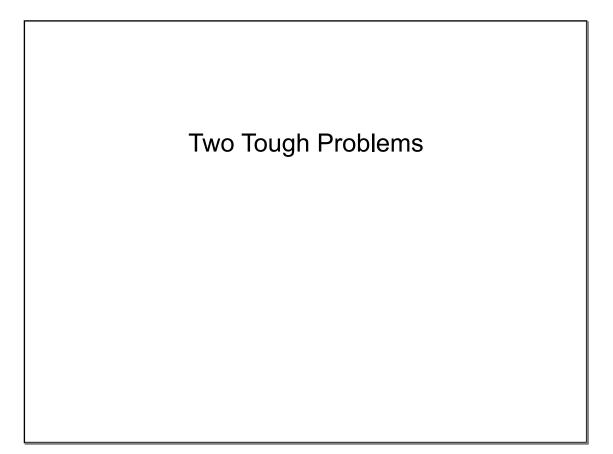


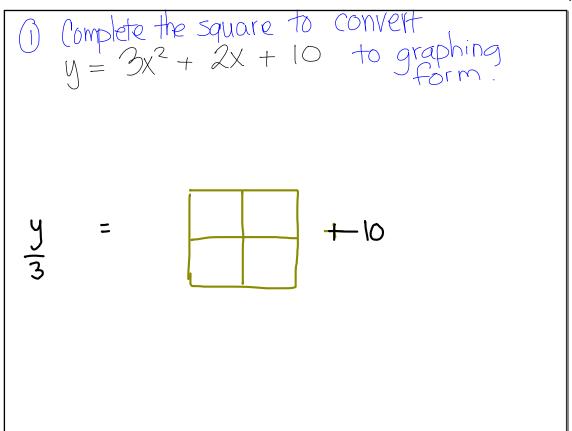


$$y = |x|$$

$$y = a|x-h| + K$$







(2) Solve the equation

$$\mathcal{Q}\left(\left|-\frac{x}{3}\right\rangle = \frac{x}{7} + 3$$

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$$\begin{aligned}
& \mathcal{Q}\left(\left|-\frac{x}{3}\right) = \frac{x}{7} + 3
\end{aligned}$$

