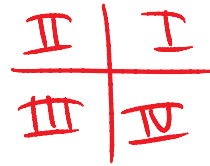


6.2 Chart

Friday, December 14, 2012
12:54 PM

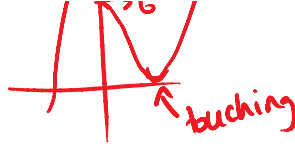
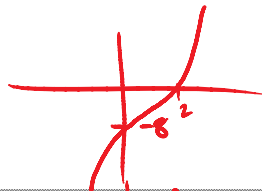



6.2 Investigating Characteristics of Polynomial Graphs and Their Equations.

Name: _____

If tort

	f(x)=	Graph (sketch)	Degree	# of x-int	y-int	End Behavior	Domain	Range	Turn pts
a)	linear $\frac{1}{2}x - 6$ <i>degree</i>		1	1	-6	QIII to QI	$x \in \mathbb{R}$	$y \in \mathbb{R}$	0
b)	linear $-5x - 2$		1	1	-2	QII to QIV	$x \in \mathbb{R}$	$y \in \mathbb{R}$	0
c)	quadratic $-2x^2 + 2x + 4$ <i>degree</i> <i>y-int</i>		2	2	4	QIII to QIV	$x \in \mathbb{R}$	$y \leq 4.5$ or $y \leq \max$	1
d)	quadratic $+x^2 - 6x + 12$		2	0	12	QII to QI	$x \in \mathbb{R}$	$y \geq 3$ or $y \geq \min$	1
e)	cubic $-2x^3 + 4x^2 - 3x + 1$ <i>y-int</i>		3	1	1	QII to QIV ✓	$x \in \mathbb{R}$	$y \in \mathbb{R}$	0
f)	cubic $+2x^3 + 4x^2 - 3x + 1$		3	1	1	QIII to QI	$x \in \mathbb{R}$	$y \in \mathbb{R}$	2
g)	cubic $+x^3 - 2x^2 + 15x + 36$		3	2	36	QIII to QI	$x \in \mathbb{R}$	$y \in \mathbb{R}$	2

cubic	$x^3 - 2x^2 + 15x + 36$		3	2	36	QIII to QI	xER	yER	2
h) cubic	$x^3 - 8$		3	1	-8	QIII to QI	xER	yER	0
i) cubic	$-x^3 + 2x^2 + 15x - 10$		3	3	-10	QII to QIV	xER	yER	2