Agenda:
~ Polynomials: Quick Intro
~ Review Midterms
~ Create Examples (if time allows!)

Do Now: In your notebook...

Polynomials can be classified by the **number of terms** *they have. Discuss and write down the names of polynomials with the following number of terms. Research if you need to!*

	Name	**Example**
One Term:	Monomial	x^2 a^2b^3 $-3z^4$
Two Terms:	Binomial	xy^2+2 x^2+y
Three Terms:	Trinomial	$x+y+z$
Four or More Terms:	Polynomial	$a+b+c+3$

Polynomials can also be classified by their **degree** *(aka highest exponent). Discuss and write down the names of polynomials with the following degrees. Research if you need to!*

Degree	**Name**	**Example**
Degree 0:	Constant (#)	8
Degree 1:	Linear	$x+2$
Degree 2:	Quadratic	$3x^2$
Degree 3:	Cubic	$4x^3-1$
Degree 4:	Quartic	$3x^4-x^2$
Degree 5:	Quintic	$2x^5+x^3$

Degree	**Name**	**Example**
Degree 6:	Sextic	x^3y^3 $(3+3=6)$
Degree 7:	septic (heptic)	$a^5b^2+b^3$
Degree 8:	Octic	a^8-a^7+3
Degree 9:	Nonic	x^3y^6+5
Degree 10:	decic	$x^8-y^{10}+2$