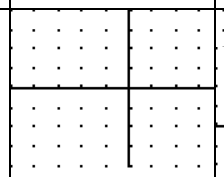
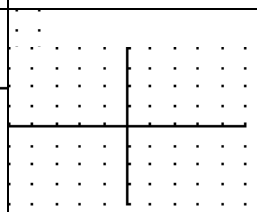
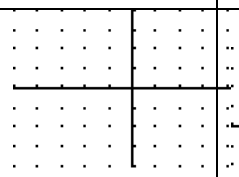
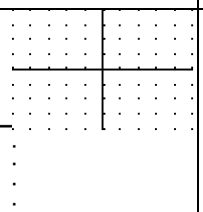
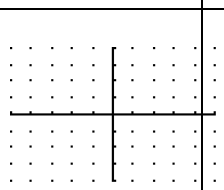
EVERYTHING YOU SHOULD HAVE LEARNED IN A 1050 CLASS ABOUT FUNCTIONS

	Quadratic functions	Polynomial functions	Rational functions	Radical functions	Exponential function	Logarithmic function	Reading a graph (picture) of a function
	$f(x) = 2x^2 - 8x + 3$	$P(x) = 2x^3 - x^2 - 4x + 3$	$q(x) = \frac{-x + 5}{3x - 2}$	$r(x) = \sqrt{x+3}$	$k(x) = 2 \cdot e^x - 1$	$m(x) = \ln(x-1)$	
Asymptotes							
Domain Range							
x-int. y-int.							Mark a,b on graph
$f^{-1}(x)$ if it exists							
f(3) =							Mark <u>c</u> on graph
If f(x) = 2, x = ?							Mark <u>d</u> on graph
GRAPH it							

Find f(*–5)=* *(q ∘r)(6) =* *f(t+1) =* *r(f(x))=* Are any of these functions Even or Odd?

And a lot of other things we learned:

A, B	Square A A^2	Multiply them (A)(B) and BA	Divide them $\frac{B}{A}$
Exponents $(-2x^2y)^3$, $(6x^3y)$ Negative exponents $(2xy^2)^{-3}$, $(3x^{-2}y)$			
Complex numbers (3-2i), (2+i) Conjugates:			
Matrices A= $\begin{bmatrix} -2 & 1 \\ 4 & 3 \end{bmatrix}$ B= $\begin{bmatrix} 0 & 1 & -3 \\ 2 & 4 & 0 \end{bmatrix}$ *det*(A) =			
Sequences, Series -1, 4, 9, … 2, 2/3, 2/9,… 1,2,3,5,8,… 1, 4, 9, 16, ….	A ,G, N	a_{15}	S_{15} S_∞ ?

Growth, decay: How long to go from \$500 to \$2000 at 4% interest compounded monthly.
$2x-3y=8$ $5x-7y=-3$ How many ways to solve? Graph Substitution Linear combinations Gauss-Jordan row operations Gauss-Jordan Matrix reduction Matrix algebra (use inverse) Cramer's Rule And they all have the same answer!
Binomial Theorem $\binom{12}{3}=$ $_8C_5=$ $\frac{12!}{3!4!}=$ $(2x-1)^5=$ What is the third degree term in $(3x+2)^6$?