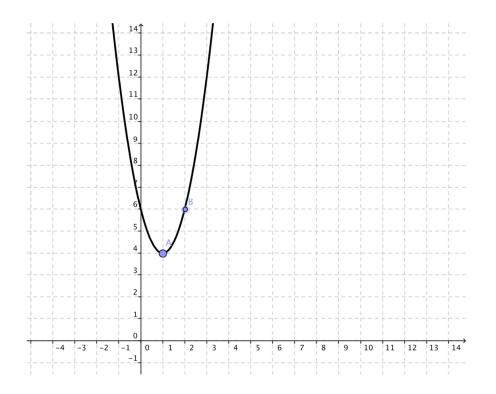
1. Write the equation of a parabola whose graph is shown.



2. Sketch a graph of the equation $f(x) = x^2 - 6x + 8$

Identify its vertex, intercepts and axis of symmetry.

U

The height y (in feet) of a punted football is given by:

$$y = -\frac{16}{2025}x^2 + \frac{9}{5}x + 1.5$$

where x is the horizontal distance in feet
from the point at which the ball is punted.
a) How high was the ball when it was
punted?

b) What is the maximum height of the ball?

c) How far was the ball punted?

N 1 Complete the link sheet for $f(x) = 5x^4 - 15x^2 + 10$	
Possible rational zeros	Values
Constant Term =	1) Find the zeros algebraically.
Leading coefficient =	
List all the POSSIBLE rational zeros:	
	2) Find the y intercept algebraically.
Croph	Looding Coofficient Test
Graph	Leading Coefficient Test
	Degree =
	Leading coefficient =
	Describe the end behavior of f(x)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

C Divide. 1) $(x^4 - 3x^3 - 2x + 1) \div (x^2 - 2x + 3)$ 2) $(x^4 - 3x^3 - 2x + 1) \div (x + 3)$

O Graph the rational function: $h(x) = \frac{x^2 - 2x - 8}{x^2 - 9}$ Using the steps described in class.

N_2

Solve: $3x^3 - 4x^2 - 12x > -16$

Τ

Find all the zeros (real and imaginary) of the function

$$g(x) = x^4 + 4x^3 - 8x^2 + 16x - 48$$

Use the graphing calculator and synthetic division to help you factor.

Ι

Write (4 - 2i)+(3 - i) in standard form.
 Write (4 - 2i)-(3 - i) in standard form.
 Write (4 - 2i)(3 - i) in standard form.
 Write (4-2i)/(3-i) in standard form.
 What is the conjugate of 4 - 2i?

FUNCTION STATIONS RECORDING SHEET

FUNCTION STATIONS RECORDING SHEET

