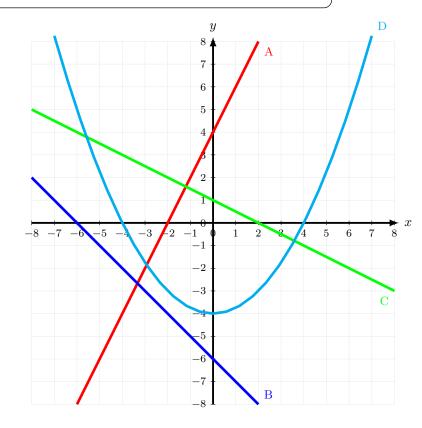
Math 115E Activity 2

Chapter 2 Section 1 The Coordinate System

Introduction to Intercepts of a graph and how to identify them

Definition. Given a graph in the coordinate plane, coordinate points of the form (x,0) on the curve are x-intercepts, and coordinate points of the form (0,y) on the curve are y-intercepts.

- 1. For graph (A) what are the x-intercepts and y-intercepts?
- 2. For graph (B) what are the x-intercepts and y-intercepts?
- 3. For graph (C) what are the x-intercepts and y-intercepts?
- 4. For graph (D) what are the x-intercepts and y-intercepts?



Math 115E Activity 2

Chapter 2 Section 2 What are Functions?

How to interpret intercepts from a function table

1. A balloon is rising from a ravine, it starts 13 ft below ground (fill in the missing values)

t (sec)	0	2	4		8		12	14		18	20
f(t) (feet)	-13		-9	-7	-5	-3		1	3		7

- **a.** What is the value of f(12) and f(2). What does it represent?
- **b.** What is the hight of the balloon at time = 4
- **c.** What time does the balloon reach ground level?
- d. When does the balloon reach 10 feet below ground?
- 2. A ball is falling from the sky, then bounces off the ground then falls back down and stops

t (sec)	0	1	2	3	4	5	6	7	8	9	10
g(t) (feet)	12	9	6	3	0	3	6	9	6	3	0

- **a.** What is the value of f(4) and f(9) what does it represent?
- **b.** What is the height of the balloon at time = 6
- c. How many times does the ball touch the ground?
- **d.** What are the x-intercepts and y-intercepts?