

Mr. Northcutt's Math Classes Class Presentation

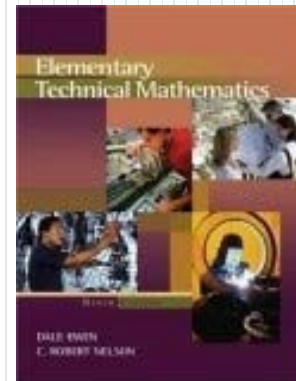
January 28, 2009 (91)



Math 1



Math 2



Applied Math



Math 1 – Daily Summary

- **Announcements**
 - **Quiz on 9.1-4 on Tuesday (2/6)!**
- **Class Objectives – *What you should learn today!***
 - Review Plan for Substitute Days (Thursday & Friday)
 - A Lot – Many New Concepts:
 - Relation - Domain & Range
 - Function (Vertical Line Test)
 - Function Rule (Input & Output), Function Notation
 - Ability to Identify the Domain & Range of a Function
- **Assignment**
 - **Lesson 5-2: 2-26 EVEN, 34-40, 43-46**

Proficiency – Order of Operations



- **Most Missed (8/9/10 out of 36)...Simplify:**

G
E
M
D
A
S

$$5 + 3(8 - 6)$$

$$2^3 + \frac{3^2 \cdot 7}{3}$$

G
E
M
D
A
S

$$(1 - 4)^2 + (5)(-2)$$



Relations – Domain & Range

- **RELATION**: Set of Ordered Pairs – Shows a RELATIONSHIP!

Age (Years)	Weights (Pounds)	
5	45	(5,45)
10	90	(10,90)
20	165	(20,165)
40	165	(40,165)
75	155	(75,155)

DOMAIN – *First Coordinate*

{5, 10, 20, 40, 75}

RANGE – *Second Coordinate*

{45, 90, 165, 155}

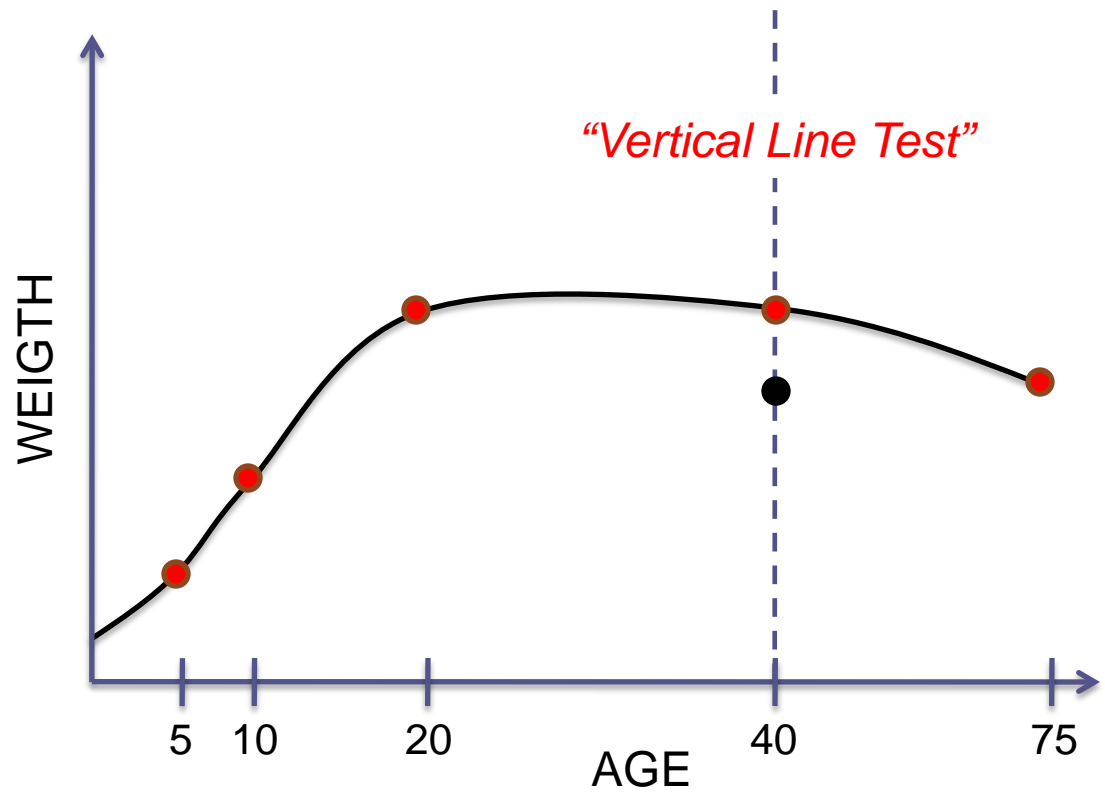
- **Do NOT Repeat Values**
- **Order from Lowest to Highest**



Functions – “Special” Relations

- **FUNCTION:** A RELATION that relates each value in the domain to EXACTLY one value in the range.
 - So What?...The function is **WELL-DEFINED!**

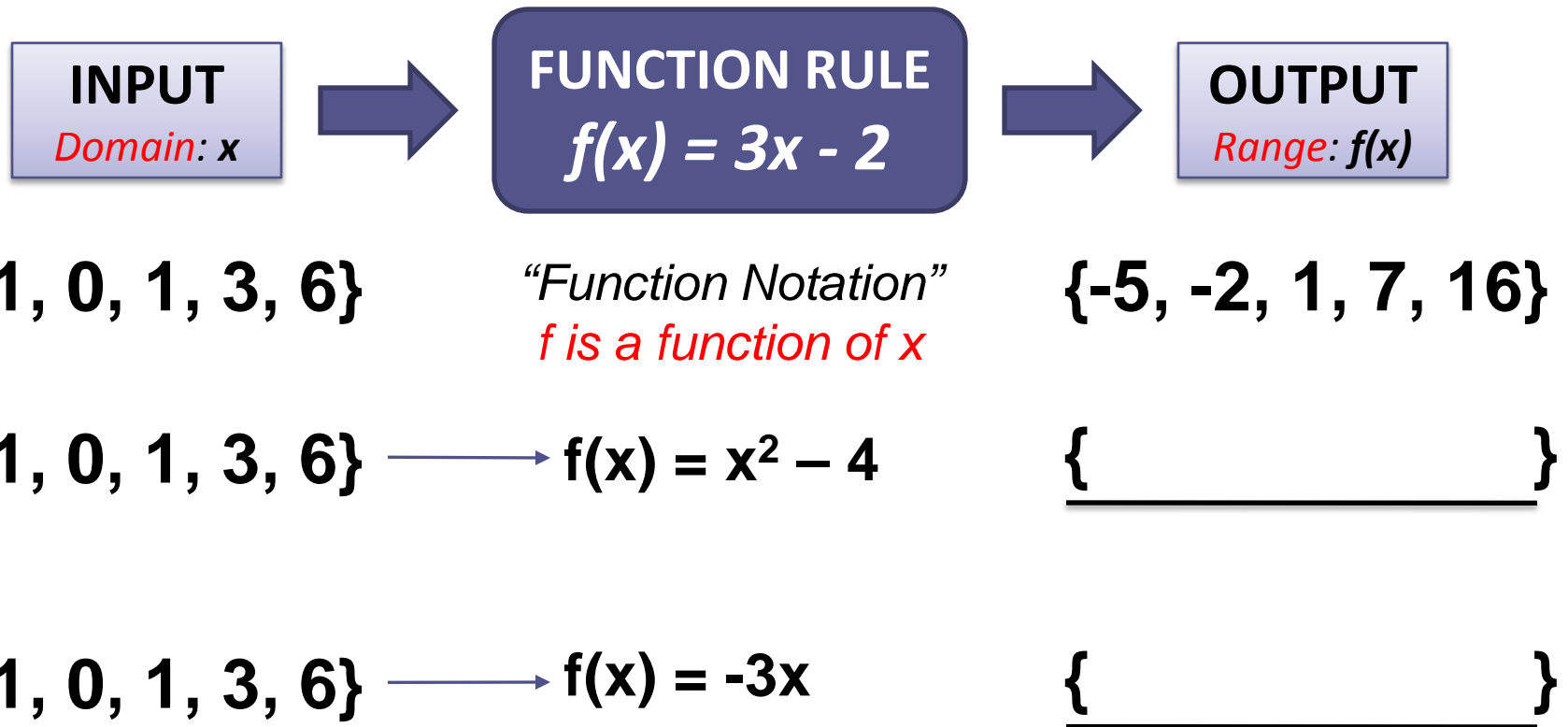
<i>Domain</i>	<i>Range</i>
Age (Years)	Weights (Pounds)
5	45
10	90
20	165
40	165
75	155
40	125





Function Rules

- **FUNCTION RULE:** EQUATION that describes a FUNCTION.





Math 2 – Daily Summary

- **Announcements**
 - **Quiz on 9.1-4 on Tuesday (2/6)!**
- **Class Objectives – *What you should learn today!***
 - Review Plan for Substitute Days (Thursday & Friday)
 - Area of Triangles, Trapezoids and Kites
- **Assignment**
 - **Lesson 9.2: 1-16, 22, 23, 25**



Solving Equations

- **Most Missed (26/29 out of 41)...Solve:**

$$\frac{3}{4}x + \frac{2}{3} = \frac{1}{6}x - \frac{1}{4}$$

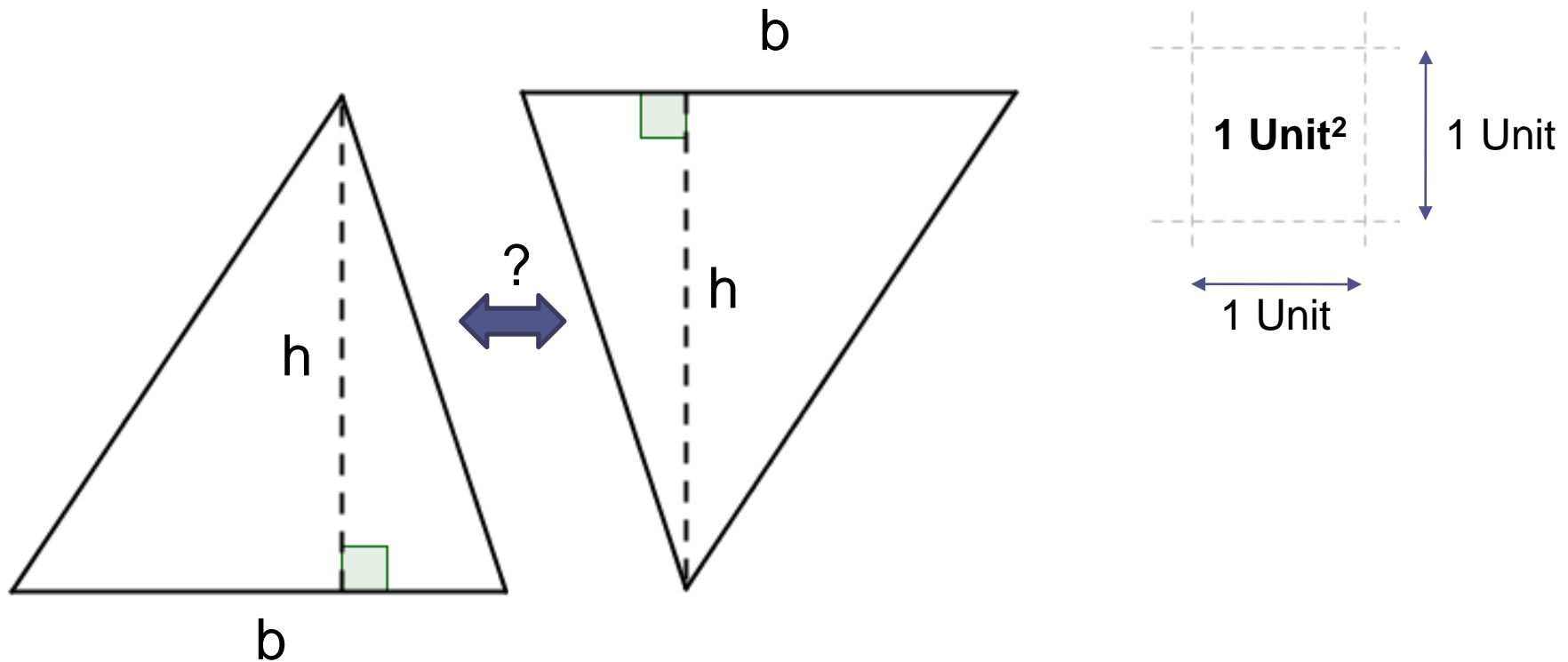
$$|2x - 4| = 16$$



Area of a Triangle

- **Area:**

- The measure of the region enclosed by the figure.

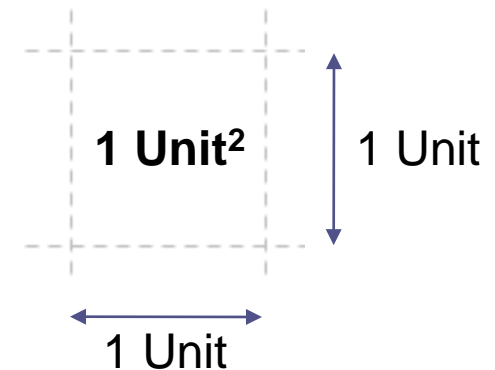
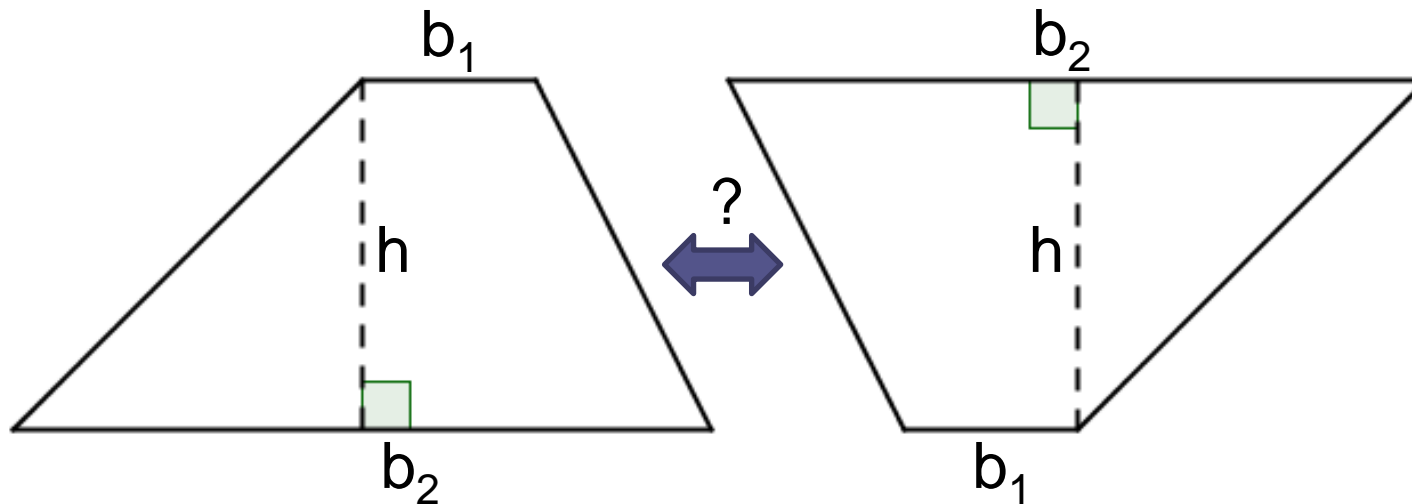




Area of a Trapezoid

- **Area:**

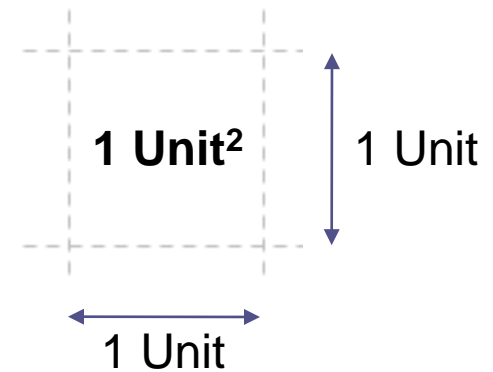
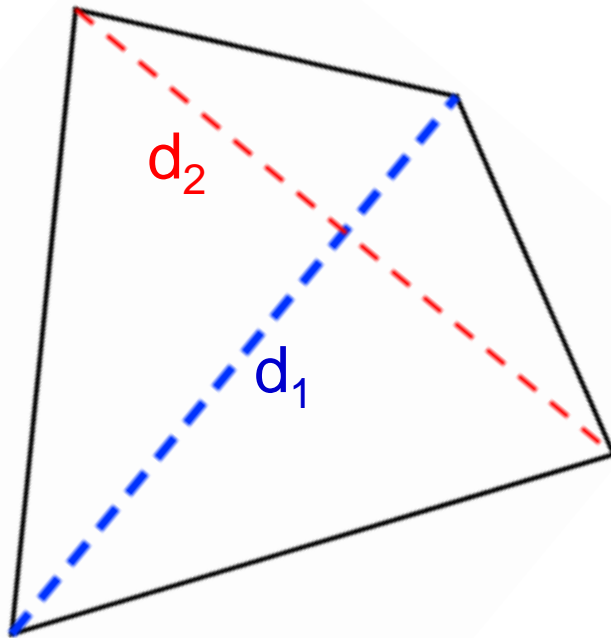
- The measure of the region enclosed by the figure.





Area of a Kite

- **Area:**
 - The measure of the region enclosed by the figure.

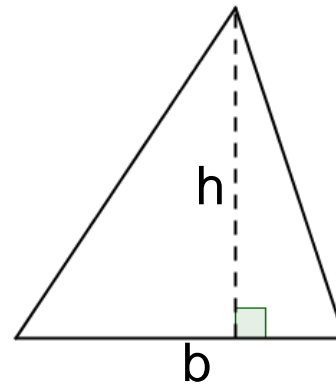




Area Conjectures

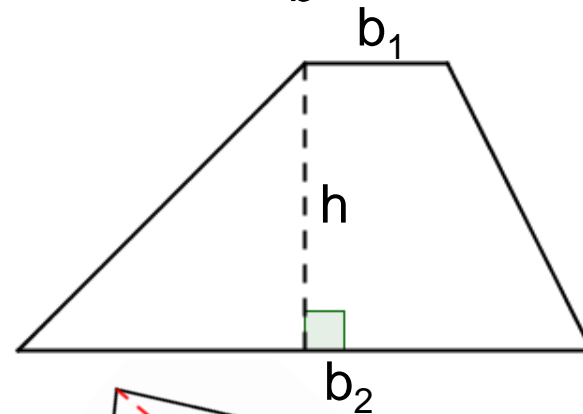
- **Area of a Triangle**

$$A = \frac{1}{2}bh$$



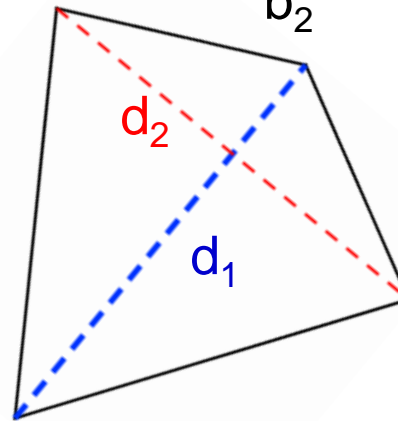
- **Area of a Trapezoid**

$$A = \frac{1}{2}(b_1 + b_2)h$$



- **Area of a Kite**

$$A = \frac{1}{2}d_1d_2$$





Applied Math – Daily Summary

- **Announcements**
 - **Geometric Art Projects Due on MONDAY!**
- **Class Objectives – *What you should learn today!***
 - Review Plan for Substitute Days (Thursday & Friday)
 - Geometric Art Project
 - Research & Documentation (25%)
 - Artwork (75%)
- **Assignment**
 - Geometric Art Project