

ALGEBRA I End of Course STUDY GUIDE

Topics

$y = mx + b$
slope = $\frac{\Delta y}{\Delta x}$
y-intercept = b
x-intercept = $-\frac{b}{m}$

Linear Functions

1. Find slope given a table:

x_1	y_1
1	-10
2	-12
3	-14
4	-16

Find slope for y_1 and y_2
 $\frac{\Delta y}{\Delta x} = \frac{-12 - (-10)}{2 - 1} = -2$

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope given two points
 $(x_1, y_1), (x_2, y_2)$

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Linear Functions in graphs

Intercept(s):

1. Choose x-intercept
2. Choose y-intercept
3. Find slope = $\frac{\Delta y}{\Delta x}$

Point(s):



Standard form:

$$y = mx + b$$

Dependent on:

$$2x - 4$$

$$2x = 4$$

$$x = 2$$

Perpendicular and Parallel

Dependent on:

$$2x + 3$$

Dependent on:

$$y =$$

$$y = 2x + 3$$

$$y = 2x + 3$$

Perpendicular and Parallel

Perpendicular and Parallel

Nonlinear Functions

$$y = x^2 - 4x + 3$$

$$y = -x^2 + 2x + 3$$

$$y = \frac{1}{2}x^2 + 2x + 3$$

$$y = -2x^2 + 4x + 3$$

Answers:

1. Parallel to $y = x^2$
Dependent on x^2 and y .

2. Perpendicular to $y = x^2$
Dependent on x^2 and y .

3. Parallel to $y = x^2$
Dependent on x^2 and y .

4. Perpendicular to $y = x^2$
Dependent on x^2 and y .

Linear Functions

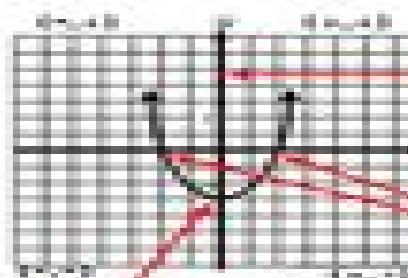
Linear Functions

Polynomial Functions

Polynomial Functions

Linear Functions	Polynomial Functions
Only linear growth	Non-linear growth
Constant rate of change	Non-constant rate of change
Linear function	Non-linear function

Quadratics: Parent Function $y = x^2$



Linear and Non-linear Functions
Properties of Non-linear Functions

Non-linear Functions
Properties, Graphs,
Applications, Non-linear
Functions for $y = x^2$

Non-linear Functions
Properties, Graphs,
Applications, Non-linear
Functions for $y = x^2$

Quadratics: Standard

$$y = a(x - h)^2 + k$$

$$y = a(x - h)^2$$

$$y = a(x^2)$$

Standard Form: $y = a(x - h)^2 + k$

$$a(x^2) - 2ax + a^2 - 2ak - k^2 = a^2$$

$$a(x^2) - 2ax + a^2 - 2ak - k^2 = a^2 - 2ak - k^2$$

Standard Form: $y = a(x - h)^2 + k$

$$\frac{a^2}{a^2} - \frac{2ax}{a^2} + \frac{a^2}{a^2} - \frac{2ak}{a^2} - \frac{k^2}{a^2}$$

$$\frac{a^2}{a^2} - \frac{2ax}{a^2} + \frac{a^2}{a^2} - \frac{2ak}{a^2} - \frac{k^2}{a^2}$$

$$a(x^2) - 2ax + a^2 - 2ak - k^2 = a^2 - 2ak - k^2$$

Algebra Honors Study Guide

Melissa Cass

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Resources in Education, 1984 **Algebra 2 Chapter 1 Resource Masters** McGraw-Hill Staff, 2002-05 **MAA Notes**
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Curriculum Manual Cathy Duffy, 1997-11 **Lovejoy's College Guide**, 1991 Offers in depth profiles of more than 2500 four
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