

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

Perpendicular and Parallel

Nonlinear Functions

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

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

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

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

Parabolas

1. Find all x-intercepts and one y-intercept

2. Choose one vertex (either minimum or maximum)

3. Write the equation for the vertex and y-intercept

4. Sketch

Linear Functions

Linear Functions

Polynomial Functions

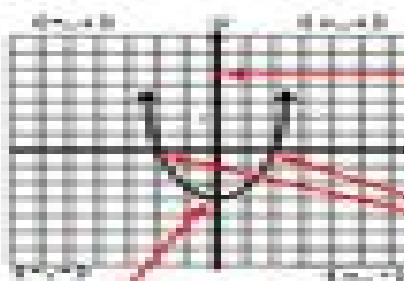
Polynomial Functions

Linear: Higher Δx results in higher Δy

Non-linear: Δx constant Δy constant

Quadratic: Δx constant Δy constant

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



Linear and Non-linear Functions
by Δx of Δy is the same

Quadratic: Δx constant
Non-linear: Δx constant Δy constant
Non-linear: Δx constant Δy constant

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

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

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

Exponentials: Standard Form: $y = a^x$

Exponentials: Non-Standard Form: $y = a(b^x) + c$

$$a^x = a^x$$

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