

Chapter 3 - Linear Equations and Functions Review

Agenda

1) In groups- answer HW questions (5 min)

last night's HW

P. 121 W.E. #5, 9, 21, 25, 35, 37

2) Online Review using Hotmath.com

a) google search: [linear equations review](#)

b) For Review on 3.1 and 3.2

choose: [Section 3: Graphing Linear Equations - Hotmath](#)

hotmath.com/help/gt/genericalg1/section_2_3.html ▾

25+ items - Chapter:Graphing Linear EquationsSection:Graphing Linear ...

Problem: 1. Do the following points lie on the graph of the line $y = -3$? Justify ...

Problem: 9. Using three points, graph the linear equation $x + 3y = 9$

recommended problems: 1-11, 29, 31, 35, 47

c) For Review on 3.3 and 3.4

choose: [Section 4: Writing Equations of Lines - Hotmath](#)

hotmath.com/help/gt/genericalg2/section_2_4.html ▾

20+ items - Chapter:Linear Relationships and FunctionsSection:Writing ...

Problem: 1. Find the equation of the line passing through the point (3, 4) and ...

Problem: 3. Find the equation of the line passing through the point (4, 2) and ...

recommended problems: 1, 3, 5, 9, 13-33, 39

***TEST on Ch 3 Sections 1-4 on MONDAY
(for Term 1)***

Recommended Review

- p. 123 Self Test #1-10

*****Check answers in back.***

- Finish all Hotmath.com Problems

Chapter 3: Linear Equations and Functions Review

3.1 Objective: To find **solutions** of open sentences in **two variables** and to **solve** problems involving open sentences

3.2 Objective: To **graph** a linear equation in **two variables**.

3.3 Objective: To find the **slope** of a line. To **graph** a line given its **slope** and a **point** on it.

3.4 Objective: To find the **equation** of a line given its **slope** and a **point** on the line, or **two points**.

Slope- Intercept Form	Standard Form	Point Slope Form
$y = mx + b$	$Ax + By = C$	$y - y_1 = m(x - x_1)$
slope = m	slope = $-A / B$	slope = m
Need: - slope - y- intercept	Gives you: - x - intercept - y - intercept	Need: - One point and slope OR - Two points
$y = \frac{-2}{3}x + 2$	$\left(\begin{array}{l} \frac{2}{3}x + y = 2 \\ 2x + 3y = 6 \end{array} \right.$	$y - 2^* = \frac{-2}{3}(x - 0^*)$ *Any point (x_1, y_1) can go in here.

