Analytic Geometry (D)

Chapter 8

Fluit Name:

	Description and Homework
Slope *Section 8.1* *Pg. 399-401*	Analysing Rates of Change: Speed = D/T Work **P400**: 9 – 25 (e.o.), 30 – 37 (e.o.), 38ace..., 39ace..., 41, 46 - 50 Bonus: 44, 45
Slope as Rate of Change *Section 8.2* *Pg. 404-408*	Slope = (change in y)/(change in x) compare to S=D/T Slope formula: m = Rise/Run Positive & Negative Slope; Undefined & Zero Slopes Collinear Points: finding slope from two points $m = (y_2-y_1)/(x_2-x_1)$ Work: P407: 1 – 8, 10, 12, 13a,, 14a, 15, 16
Point-Slope Form *Section 8.3* *Pg. 418-420*	Graphing a line given any point and the slope Using Point-Slope From. Standard Form. Work: P418: 1 – 7, 20, 22, 25, 28, 29 – 36, 38, 40, 43 – 46, 48, 50 – 57, 65 Bonus: 58, 66, 68 More Work: Back side of Outline
Slope and Y-intercept *Section 8.4* *Pg. 428-429*	Y-intercept (0,b) and X-intercept (a,0) y = mx + b, where m = slope & b = y-intercept Work: P428: 1 – 31 (e.o.), 32, 33, 35 – 59 (e.o.), 60
Methods for Graphing Linear Equations *Section 8.5* *Pg. 432-433*	The way of graphing? Select from the following 4 methods: intercepts, table of values, slope-intercept, or graphing calculator Work P 432: 1 – 6, 9 – 21 (e.o.), 23 – 25, 27, 29, 30, 34, 35, 37
Intersecting Lines *Section 8.7* *Pg. 394-401*	Work P 441: 1 – 4, 6, 7, 9 – 12, 18 (optional: 17)
Parallel and Perpendicular Lines *Section 8.6* P437-438	Work: P437: 1 – 8, 10 – 14, 16 – 18, 20, 23, 26, 27, 32 – 37, 40 – 46, 48 – 50, 52 – 56, 58, 59
Review	Pg. **444** (omit 1-7 if finished in last unit)
Chapter Check	Pg. **446**
Unit Test	TBA

Show your work clearly!

1. The slope of a line is 2. The line passes through (3, 4) and (4, **k**). find the value of **k**.

2. The slope of a line is $\frac{-3}{4}$. The line passes through (-6, 8) and (2, **k**). Find the value of **k**.

3. The slope of a line is $\frac{2}{3}$. The line passes through (**k**, 5) and (10, 9). Find the value of **k**.