Date: 11/22/2016 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_

***=====Review=====***

For two points (x1,y1), (x2,y2), write the formulas for

1. Distance between them:
2. Slope of the line connecting those two points:
3. Coordinates of the midpoint:

P248: 8.29

8.30 (a)

(b)

(c)

*======== Chapter 8 -Graphing lines ========*

***8.4 Find the equation***

Same equation can be written in different forms:

1. **Point-slope form**

E.g.

Infinite number of point-slope form

1. **Standard form**

Ax + By = C

Horizontal lines:

Vertical lines:

1. **Slope-intercept form**

y=mx + b

m: slope

b: y-coordinate of the y-intercept

P228: 8.14

8.15

8.16

***8.5 Slope and intercepts***

P233: 8.18

8.20

(8.21)

***8.6 Comparing Lines***

Parallel Lines ⇔ same slope, m1=m2

Two lines are perpendicular ⇔ m1m2 = -1

P238: 8.23

8.24

8.25

8.26

8.27

***===============Homework===============***

*Read the summary and answer the following questions.*

P232: 8.4.1

8.4.2

P238: 8.5.4

P244: 8.6.1

8.6.2

8.6.3

8.6.4

P248: 8.34

8.39

8.42(a)

8.43

8.45

8.47

8.48