UCHS Algebra 2 (Davis)
2.4 HW - You may do on this sheet

I. Write an equation in slope-intercept form for the line described.

1. slope 3, passes through (0, –2)

2. slope –2, passes through (–3, 14)

3. **PART-TIME JOB** Each week, Carmen earns a base pay of $15 plus $0.17 for every pamphlet that she delivers. Write an equation that can be used to find how much Carmen earns each week. How much will she earn the week that she delivers 300 pamphlets?

II. Write an equation of the line passing through each pair of points: First write in point slope form than slope intercept

4. (–8, –5), (–3, 10) Point Slope: Slope Intercept

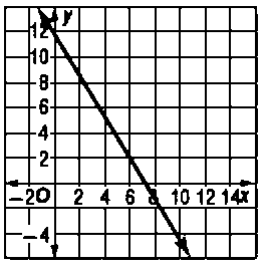
5. (4.6, 3.4), (2.2, 2.8) Point Slope: Slope Intercept:

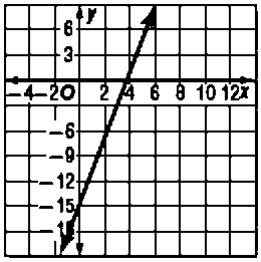
III. Write an equation in slope-intercept form for the line that satisfies each set of conditions.

6. passes through (–6, –6), parallel to $y = \frac{4}{3}x + 8$

7. passes through (10, 2), perpendicular to $y = 4x + 6$

IV. Write an equation in slope-intercept form for each graph.

8. 

9. 

10. ROSES Brad wants to send his girlfriend Kelli a dozen roses. He visits two stores. For what distance do the two stores charge the same amount to deliver a dozen roses?

Full Bloom	Flowers R US
Dozen roses $30 Delivery: $3 per mile	Dozen roses $40 Delivery: $2 per mile

11. TYPING The equation $y = 55(23 - x)$ can be used to model the number of words y you have left to type after x minutes.

a. Write this equation in slope-intercept form.

b. Identify the slope and y -intercept.

c. Find the number of words you have left to type after 20 minutes.

12. **REASONING** Determine whether the following statement is always, sometimes, or never true. Explain your reasoning.

The quadrilateral formed by any two parallel lines and two lines perpendicular to those lines is a square.