Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

# 5-2 Point-Slope and the Real world

 Homework

*Write an equation in point-slope form of the line that passes through the given points*

1) (1, 6), (-1, -3) 2) (-3, -4), (-2, -8)

*Write an equation in point-slope form of the line that passes through the given point and has the given slope, then solve for y (put in slope-intercept form).*

3) (8, -7), m = 0 4) (-3, 4), m = 4

5) (-4, 3), m = 1/2 6) (8, 3), m = 2/3

7/8) Tiffany got a new job and was saving money. She had &780 in her savings account in July, and $845 in August. If she always deposited the same amount, how much money did Tiffany start with? How much money will be in her account after she has been saving for two years?

9/10) You buy a house that is $200,000. You put a down payment of $15,000 down on the house. Your mortgage is $879/month. How much money have you put into paying off the house after 10 years? How long will it take you to pay the full $200,000?

BONUS: Will you actually have you house paid off at that time if the $879/month is only being put towards the house cost? Why or why not?