Algebra 1   Name: _____

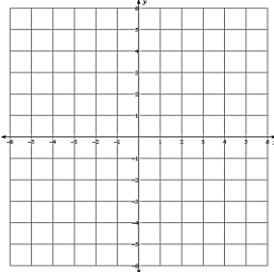Bruin Point-Slope Worksheet   Per: _____
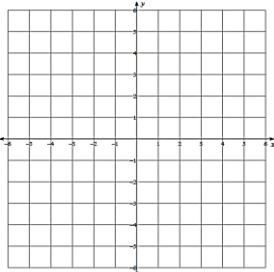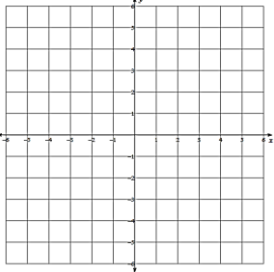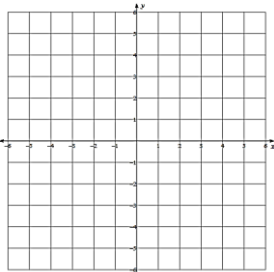
Fill in the blank pieces for #1-8. Then graph #5-8.

1. $y = 3 + 2(x - 4)$ The y – coordinate is _____ and the line changes by _____ for every interval past x = _____.	2. $y = -2 - 3(x + 7)$ The y – coordinate is _____ and the line changes by _____ for every interval past x = _____.
3. $y = -5 + \frac{3}{2}(x - 1)$ The y – coordinate is _____ and the line changes by _____ for every interval past x = _____.	4. $y = 1 - \frac{4}{3}(x + 9)$ The y – coordinate is _____ and the line changes by _____ for every interval past x = _____.
5. $y = 5 - 3(x - 2)$ Starting point = _____ slope = _____ 	6. $y = -4 + 2(x + 3)$ Starting point = _____ slope = _____
7. $y = 1 - \frac{4}{3}(x + 4)$ Starting point = _____ slope = _____ 	8. $y = -5 + \frac{3}{2}(x - 1)$ Starting point = _____ slope = _____

QUESTIONS CONTINUED ON BACK ----------------→

9. You currently have $190 in your bank account after earning $25 for each lawn and mowing 6 lawns.

    a. How much money will you have after mowing 14 lawns **in total** (that is 8 more past the first 6)?

    b. Let y = amount in account and x = total # of lawns mowed. Write an equation for the amount in your account after mowing x lawns in total.

    c. Use your equation to find how much money was in your account before you mowed any lawns (that is you mowed 0 lawns in total).

    d. Use your equation to find how much money will be in your account if you mow 20 lawns in total.

10. You currently have $95 in your bank account after earning $12 for each hour you babysit and babysitting for 5 hours.

    e. How much money will you have after babysitting 12 hours **in total** (that is 7 more past the first 5)?

    f. Let y = amount in account and x = total # of hours babysat. Write an equation for the amount in your account after babysitting x hours in total.

    g. Use your equation to find how much money was in your account before you babysat any hours (that is you babysat 0 hours in total).

    h. Use your equation to find how much money will be in your account if you babysit 24 hours in total.