

1. **Recall:** The compound interest formula is $A = P\left(1 + \frac{r}{n}\right)^{nt}$

If a principal amount of \$400 is invested in an account paying an annual percentage rate of 7%, find the amount in the account after 9 years, if the account is compounded *daily*.

Solve the following absolute value equations and inequalities. Write solution sets in set-builder notation *and*, for the inequalities, use interval notation, as well.

2. $|-3x + 2| = 3$

3. $|5x - 3| > 4$

4. $|-3x + 2| < 4$

5. $|3x + 5| \geq 3$

6. $|13x - 11.9| > -1$

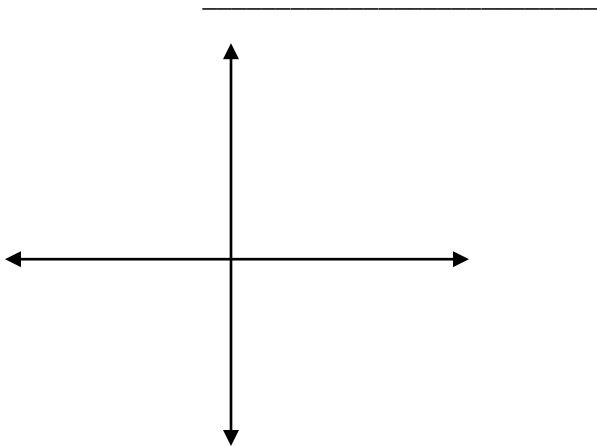
7. $|17x + 11| < -3.721$

8. $|3x - 1| = -6$

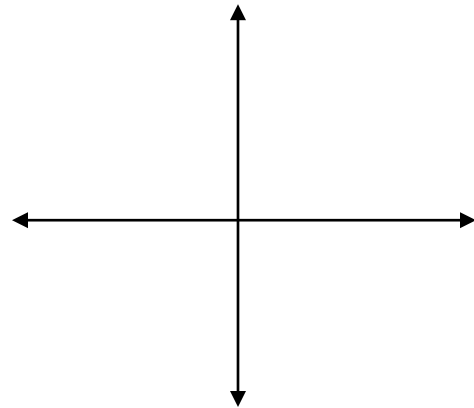
9. Bonus $|4x - 6| = |3x + 5|$

10. Sketch the graph of each of the following equations. Include the intercepts, and if the intercepts are *all* you label on your graph, that's just fine with me!

a. $y = 2x - 5$ (In what form is this linear equation?)



b. $y = |2x - 5|$ (Reflect on the previous!)



11. Determine the domain and range of the relation from its graph. Use Interval notation in your answer.

