

Pre-AP Algebra II**Assignment #12****[Due on Monday 10/14/19]****Name:** _____**Period:** _____

Directions: Graph the following functions. State the domain and range of each function in set and interval notation. Verbally describe the transformations of each graph from its parent function.

[Notes #38]

1. $f(x) = |2x - 6|$

2. $f(x) = \frac{1}{3}|x| - 5$

3. $f(x) = \frac{1}{3}|-x - 5| + 3$

4. $f(x) = \left| -\frac{1}{3}x + 2 \right| - 8$

5. $f(x) = -\frac{1}{2} \left| \frac{1}{4}x + 1 \right| + 7$

6. $f(x) = -2x^2 + 9$

7. $f(x) = \frac{1}{2}(-x + 6)^2 + 1$

8. $f(x) = -\left(\frac{1}{3}x - 1\right)^2 + 2$

9. $f(x) = -\frac{1}{2}(3x + 3)^2 - 2$

10. $f(x) = -2\left(-\frac{1}{2}x - 3\right)^2 + 7$

