Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Acc Geom/Adv Alg

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_ Benchmark 2 Review C

**Determine x and y intercepts of the following functions:**

1. $f\left(x\right)=-\frac{1}{4}\left(x+4\right)^{2}+1$ 2) $f\left(x\right)=6x^{2}+4x-1$

**Determine whether the given functions have a maximum or a minimum and where it is.**

1. $f\left(x\right)=-4x^{2}-16x+3$ 4) $f\left(x\right)=\left(x+7\right)^{2}+5$

**Determine the end behavior of the following functions.**

$5) f\left(x\right)=-\frac{1}{5}\left(x+2\right)^{2}-8$ 6) $f\left(x\right)=3x^{2}+x+7$

**List the transformations of the following functions.**

 7) $f\left(x\right)=\left(-5x\right)^{2}-1$ 8) $f\left(x\right)=-\frac{1}{3}\left(x-9\right)^{2}$

**Rewrite the following into vertex form (#9) or standard form (#10)**

9) $f\left(x\right)=-4x^{2}+8x-1$ 10) $f\left(x\right)=2\left(x-5\right)^{2}+8$

**Determine the domain and range of:**

11) Question #9 12) Question #10



