## AEST Adv Alg 2 Week 3 Friday Warm-up <br> \section*{TEST on block day next week}

1. Describe the transformation from the parent function:

$$
f(x)=|x|
$$

a) $g(x)=|x|+9$
b) $h(x)=\frac{2}{7}|x|$
2. Write the new function for the given transformation:

Parent function:

$$
g(x)=x^{2}
$$

a) reflected across the x-axis

$b)$ reflected across the $y$-axis

c) Vertically stretched by a factor of 3 ,vertically translated 8 units down.

3. In point-slope form,write the equation of the line parallel to $4 x-3 y=9$ passing through ( $-7,2$ ).
4. In slope-intercept form, write the equation of the line perpendicular to $y=-3 x+5$ passing through $(4,-2)$.


