Graphing using transformations. You studied this graphing techniques in College Algebra. Here is the summary of graphing using transformations : https://www.youtube.com/watch?v=An29CALYjAA. Please recall by doing the following exercises

1. Graph $y=x^{2}+3$ and $y=x^{2}-4$. Start with the basic function. Plot exactly 4 points when graphing it.

Basic function $y=x^{2}$


$Y=x^{2}-4$

2. Graph $y=|x-2|$ and $y=|x+4|$. Start with the basic function. Plot exactly 4 points when graphing it.

3. Graph $y=-\sqrt{x}, \quad y=\sqrt{-x}, y=3 \sqrt{x}, y=\frac{1}{3} \sqrt{x}, y=\sqrt{2 x}$. Start with the basic function. Plot exactly 4 points when graphing it.

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4. Graph $\quad y=-2 \sqrt{x+1}+2$ using transformations. Start with the basic function. Plot accurately at least 3 points and use them to perform transformations. Do not graph by plotting the points! Show one transformation at a time in a correct order (clearly labeled). Write the equation of each graph






5. Graph $y=-|2 x+1|-2$ using transformations. Start with the basic function. Plot accurately at least 3 points and use them to perform transformations. Do not graph by plotting the points! Show one transformation at a time in a correct order (clearly labeled). Write the equation of each graph



$$
y=
$$

$\qquad$


$Y=$ $\qquad$



