

## Let's Practice ... Graphing with TRANSFORMATIONS

(\#1-4) Identify the transformations taking place on the parent function. Then, graph the transformed function. Include at least four accurate points.

1. $y=\sqrt{x}+1 \quad$ UP |

2. $y=-\sqrt{x}$ REFLELTION OVER $x-A \times 15$

3. $y=\sqrt{x+1}$ LEFT 1

4. $y=\sqrt{-x}$ REFLELTION OER $Y$-AXIS

5. $y=3 \sqrt{x}$ VERTICAL STRETCH

BY 3

6. $y=\frac{1}{2} \sqrt{x}$


Challenge!
Write a square root function that has a domain of $[-5, \infty)$ and a range of $[2, \infty)$. Hint: use a graph to help!


$$
y=\sqrt{x+5}+2
$$

