September 1, 2022


$$
\begin{aligned}
& \text { up } f(x)+c \\
& \text { down } f(x)-c \\
& \text { left } f(x+c) \\
& y=x^{2}+2 \\
& y=(x+3)^{2} \\
& \text { right } f(x-c) \\
& \begin{array}{l}
\text { reflect } \\
\text { roxxis } \\
\text { of }
\end{array} \\
& \text { reflect } f(-x) \\
& \text { overy-axis } \\
& \text { strathicef } a \cdot f(x) \\
& \text { vertically } \\
& \text { stretheos } f(a x) \\
& \text { homzorially }
\end{aligned}
$$

$$
\begin{aligned}
& y=-\sqrt[3]{x-4}+3 \\
& \begin{array}{cc}
\text { Right UP } \\
4
\end{array} \\
& \begin{array}{c|c}
\hline 0 & 0 \\
1 & 1 \\
8 & -2 \\
27 & -3
\end{array} \\
& y=2 \sqrt{6-x}-1 \\
& =2 \sqrt{-(x-6)}-1 \\
& \begin{array}{c|c}
\hline 0 & 0 \\
-1 & 1 \\
-4 & 2 \\
-9 & 8 \\
-4 & 6
\end{array}
\end{aligned}
$$





$$
\text { 49 } \begin{aligned}
f(x)= & x^{3}-3 x^{2} \\
& \text { Left 4, Down 2 } \\
f(x)= & (x+4)^{3}-3(x+4)^{2}-2
\end{aligned}
$$

