

- The graph of  $y = \sqrt[3]{x}$  is vertically stretched by a factor of 5, then it is shifted 3 units right and 2 units down. What is an equation for the new graph?

START WITH  $y = \sqrt[3]{x}$

① VERTICAL STRETCH BY FACTOR 5 :  $y = 5 \sqrt[3]{x}$

② SHIFT 3 RIGHT :  $y = 5 \sqrt[3]{x-3}$

③ SHIFT 2 DOWN :  $y = 5 \sqrt[3]{x-3} - 2$