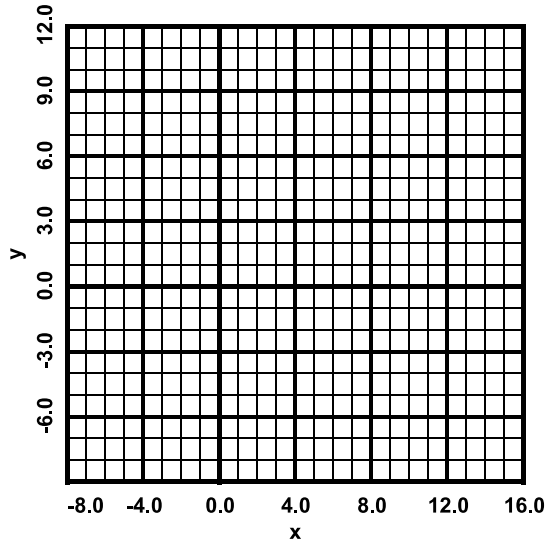


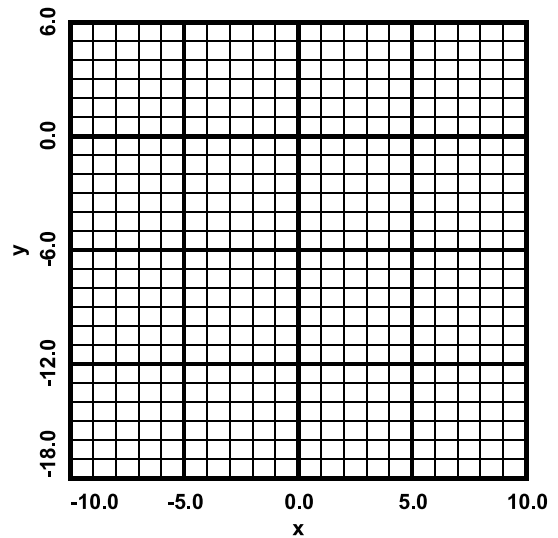
1) Let $y = f(x) = \sqrt[3]{x}$.

- a) Construct a function $y = g(x)$ which is a vertical stretch, by a factor of 3, of $y = f(x)$.
- b) Graph $y = g(x)$ on the axes below.
- c) Construct a function $y = h(x)$ which is a translation, by (5,3), of $y = g(x)$.
- d) Graph $y = h(x)$.



3) For $y = f(x) = 15 \cdot \sqrt[3]{x+3} - 9$, calculate $y = f^{-1}(x)$.

4) Solve $\sqrt[3]{x+2} + 3 = 3x - 13$ for x by graphing.



2) Describe the transformation which takes

$$y = f(x) = \sqrt[3]{x} \text{ to }$$

$$y = g(x) = 9 \cdot \sqrt[3]{x-17} - 4.$$