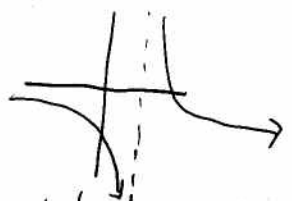


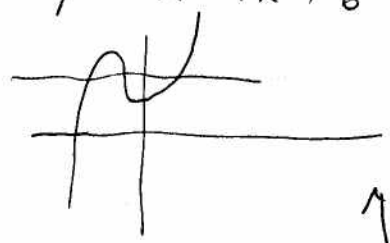
3. yes passes horizontal line test

6. NO fails horizontal line test

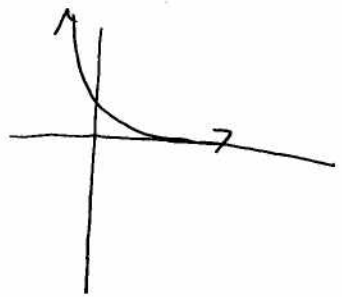
7. yes passes horizontal line test



9. $y = x^3 - 4x + 6$ NO - fails horizontal line test



12. $y = 2^{3-x}$ yes



15.

$$f(x) = x^3 - 1$$

$$y = x^3 - 1$$

$$x = y^3 - 1$$

$$y^3 = x + 1$$

$$y = \sqrt[3]{x+1}$$

$$f^{-1}(x) = \sqrt[3]{x+1}$$

$$(f \circ f^{-1})(x) = (\sqrt[3]{x+1})^3 - 1$$

$$= x + 1 - 1$$

$$= x$$

$$(f^{-1} \circ f)(x) = \sqrt[3]{x^3 - 1 + 1} = \sqrt[3]{x^3}$$

$$= x$$

