

**SM3—11.1 odd answers**

1a.  $f(x)$  is not a function

1b.  $f^{-1}(x)$  is a function

3a.  $f(x)$  is a function

3b.  $f^{-1}(x)$  is a function

5.  $f^{-1}(x) = \frac{x+6}{3}$  or  $f^{-1}(x) = \frac{x}{3} + 2$

7.  $f^{-1}(x) = \pm\sqrt{x} + 4$

9.  $f^{-1}(x) = \pm\sqrt{\frac{x+6}{2}}$

11.  $f^{-1}(x) = \sqrt[3]{x-4}$

13.  $f^{-1}(x) = \sqrt[3]{x-6} + 1$

15.  $f^{-1}(x) = \frac{-3-x}{x-2}$  or  $\frac{3+x}{-x+2}$

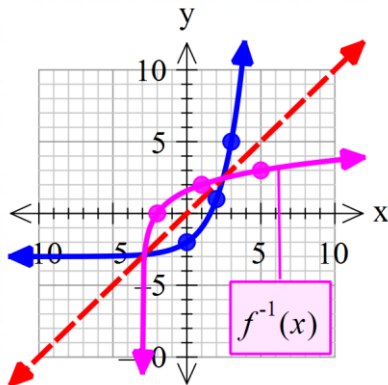
17. yes, passes both VLT and HLT

19. yes, pass both VLT and HLT

21.

x	$f^{-1}(x)$
4	0
2	2
-4	4
-14	6
-28	8

23.



25.  $x^2 - 49$

27.  $x^2 + 14x + 49$