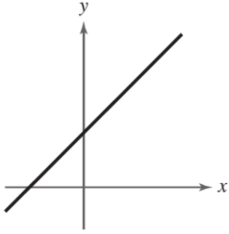
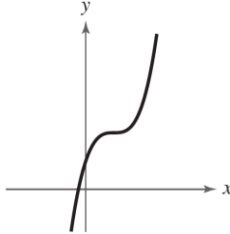
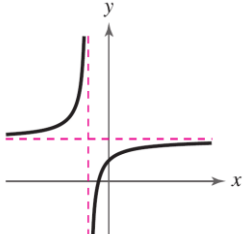
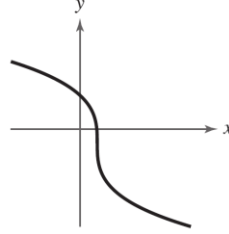
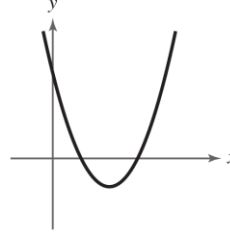


**I. Determine if the given graph or given function is one-to-one. Circle YES or NO.**

<p>1.) 1-1? Yes No</p> 	<p>2.) 1-1? Yes No</p> 	<p>3.) 1-1? Yes No</p> 	<p>4.) 1-1? Yes No</p> 	<p>5.) 1-1? Yes No</p> 
---	--	--	--	--

**II. Assuming  $f(x)$  is an one-to-one function, complete the problems below. Must show work!**

<p>6.) If <math>f(x) = 5 - 2x</math>, then find <math>f^{-1}(13)</math></p>	<p>7.) If <math>f(x) = 4 - \sqrt[3]{x+3}</math>, then find <math>f^{-1}(2)</math></p>	<p>8.) If <math>f(x) = 3x^2 + 6</math>, then find <math>f^{-1}(33)</math> where <math>x \leq 0</math></p>
<p>9.) If <math>f(x) = 3\sqrt{2x-4}</math>, then find <math>f^{-1}(6)</math></p>	<p>10.) If <math>f^{-1}(x) = 2x^2 + 5x - 3</math>, then find <math>f^{-1}(-2)</math></p>	<p>11.) If <math>f(x) = \frac{2x+6}{x-1}</math>, then find <math>f^{-1}(4)</math></p>

**III. Find the inverse function  $f^{-1}(x)$  for  $f(x)$ . PLEASE SHOW ALL WORK in provided BOX!!**

12.)  $f(x) = \frac{2}{3}x - 2$

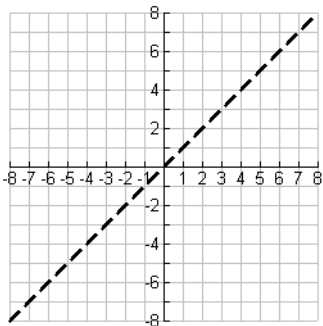
13.)  $f(x) = 4(x + 3)^2, x \geq 0$

14.)  $f(x) = 6 - 2\sqrt{x-4}$

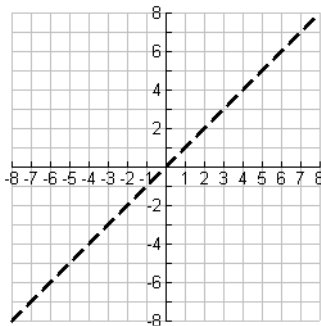
15.)  $f(x) = \frac{2}{x-3}$

**IV. Graph the function  $f(x)$  and its inverse function  $f^{-1}(x)$  on the same plane.**

16.)  $f(x) = 2x - 1$



17.)  $f(x) = 5 - 4|x + 3|$



18.)  $f(x) = (x + 4)^3 - 2$

