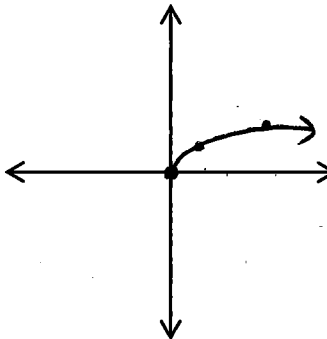
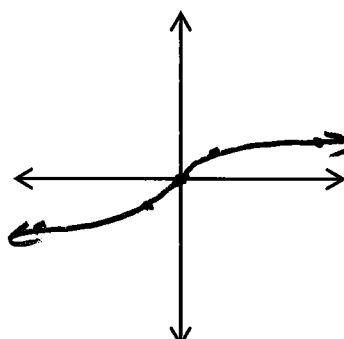
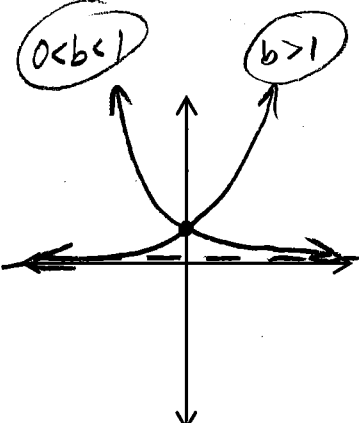
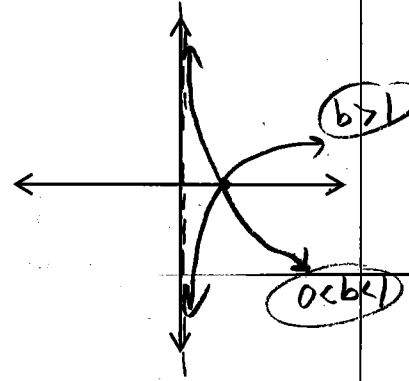
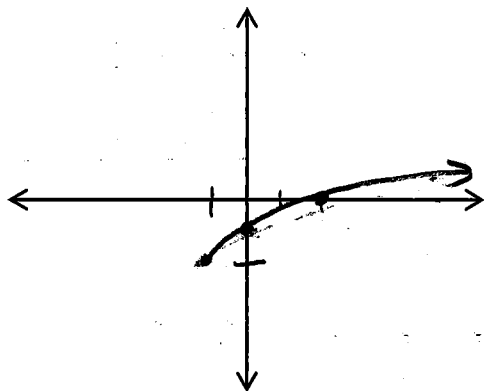


Graph the following parent functions as well as identify its domain and range.

<p>1. $y = \sqrt{x}$</p> <div style="display: flex; align-items: center; justify-content: center;"> <table border="1" style="border-collapse: collapse; margin-right: 20px;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">y</td> </tr> </table>  </div> <p>Domain: <u>$[0, +\infty)$</u> Range: <u>$[0, +\infty)$</u></p>	x	y	<p>2. $y = \sqrt[3]{x}$</p> <div style="display: flex; align-items: center; justify-content: center;"> <table border="1" style="border-collapse: collapse; margin-right: 20px;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">y</td> </tr> </table>  </div> <p>Domain: <u>$(-\infty, +\infty)$</u> Range: <u>$(-\infty, +\infty)$</u></p>	x	y
x	y				
x	y				
<p>3. $y = b^x$</p> <div style="display: flex; align-items: center; justify-content: center;"> <table border="1" style="border-collapse: collapse; margin-right: 20px;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">y</td> </tr> </table>  </div> <p>Domain: <u>$(-\infty, +\infty)$</u> Range: <u>$(0, +\infty)$</u></p>	x	y	<p>4. $y = \log_b(x)$</p> <div style="display: flex; align-items: center; justify-content: center;"> <table border="1" style="border-collapse: collapse; margin-right: 20px;"> <tr> <td style="padding: 5px;">x</td> <td style="padding: 5px;">y</td> </tr> </table>  </div> <p>Domain: <u>$(0, +\infty)$</u> Range: <u>$(-\infty, +\infty)$</u></p>	x	y
x	y				
x	y				

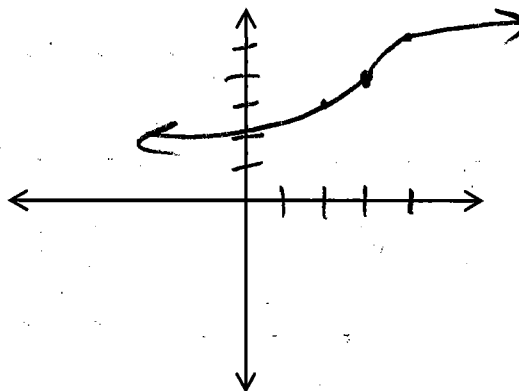
Graph the following. Then state the domain and range.

5. $y = \sqrt{x+1} - 2$



Domain: $[-1, +\infty)$
 Range: $[-2, +\infty)$

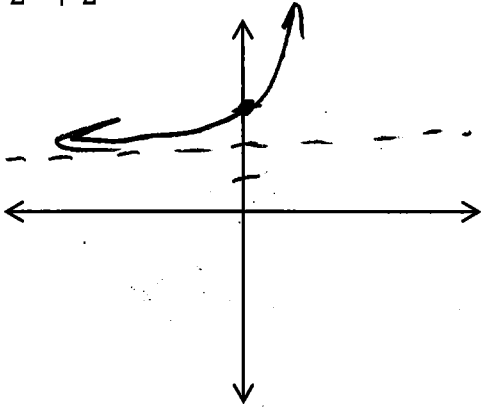
6. $y = \sqrt[3]{x-3} + 4$



Domain: $(-\infty, +\infty)$
 Range: $(-\infty, +\infty)$

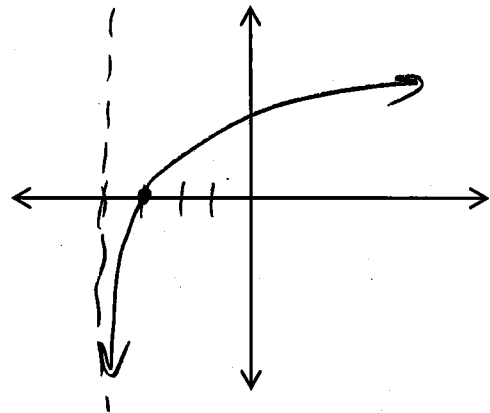
Graph the following. Then state the domain and range.

7. $y = 2^x + 2$



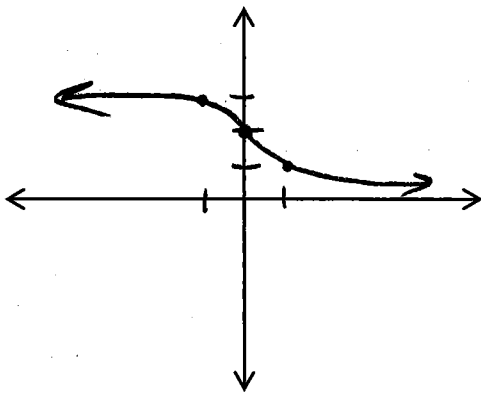
Domain: $(-\infty, +\infty)$
 Range: $(2, +\infty)$

8. $y = \log_3(x + 4)$



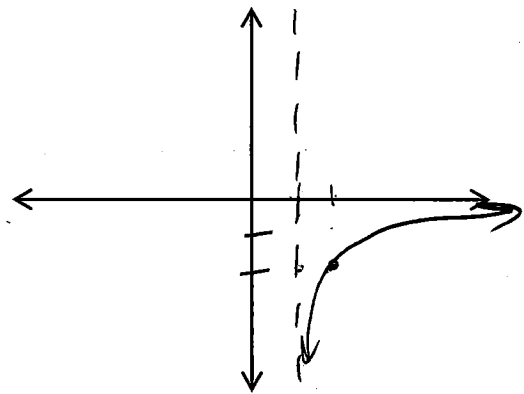
Domain: $(-4, +\infty)$
 Range: $(-\infty, +\infty)$

9. $y = -\sqrt[3]{x} + 2$



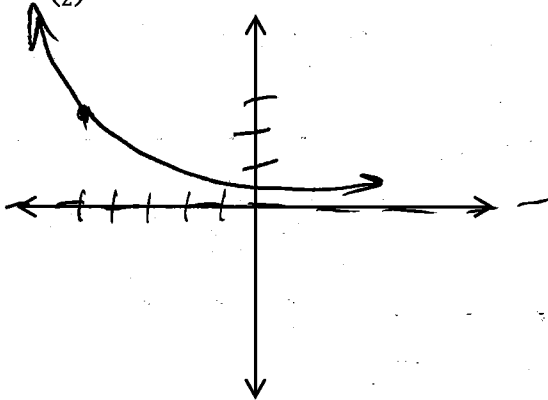
Domain: $(-\infty, +\infty)$
 Range: $(-\infty, +\infty)$

10. $y = \log_5(x - 1) - 2$



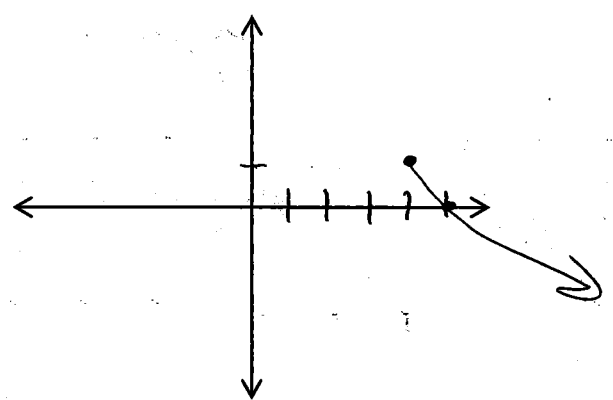
Domain: $(1, +\infty)$
 Range: $(-\infty, +\infty)$

11. $y = 3\left(\frac{1}{2}\right)^{x+5}$



Domain: $(-\infty, +\infty)$
 Range: $(0, +\infty)$

12. $y = -\sqrt{x - 4} + 1$



Domain: $[4, +\infty)$
 Range: $(-\infty, 1]$