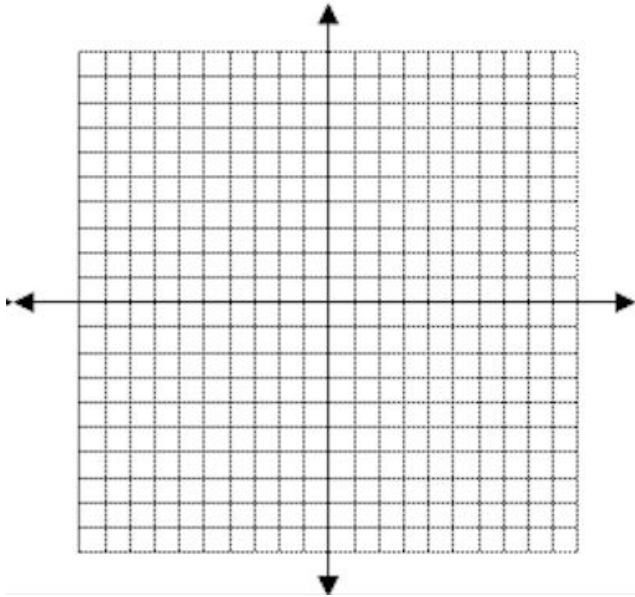


<p>1) Simplify: $\sqrt[3]{-8x^3y^5z^7}$</p>	<p>2) Simplify: $7\sqrt[5]{b^5n} - 2b^{10}\sqrt{n^2}$</p>	<p>3) Simplify: $\frac{2}{1-\sqrt{2}}$</p>	<p>4) Simplify: $2\sqrt{72} - 3\sqrt{2}$</p>
<p>5) Solve the equation. Consider the radicand... $6\sqrt{x-2} + 4 \leq 28$</p>	<p>6) Solve the equation: Check your solutions... $\sqrt{2x+7} = x - 4$</p>	<p>7) Find the inverse of the function. $f(x) = \sqrt{x-4} + 2$</p>	<p>8) Solve the equation: Check your solutions... [Hint: square both sides and FOIL the left side] $\sqrt{x+6} + 1 = \sqrt{7-x}$</p>
<p>9) Graph the function and its inverse: $f(x) = \sqrt[3]{x-1}$</p> 		<p>10) The average speed that a tsunami (a large tidal wave) travels is represented by the function $s = (200d)^{1/2}$, where s is the speed (in miles per hour) that the tsunami is traveling and d is the average depth (in feet) of the wave.</p> <p>a. Find the inverse of the function.</p> <p>b. Find the average depth of the tsunami when the recorded speed of the wave is 250 miles per hour. [Hint: use the inverse function you just created]</p>	

1) $-2xyz^2\sqrt[3]{y^2z}$

2) $5bn^{1/5}$ or $5b\sqrt[5]{n}$

3) $-2-2\sqrt{2}$

4) $9\sqrt{2}$

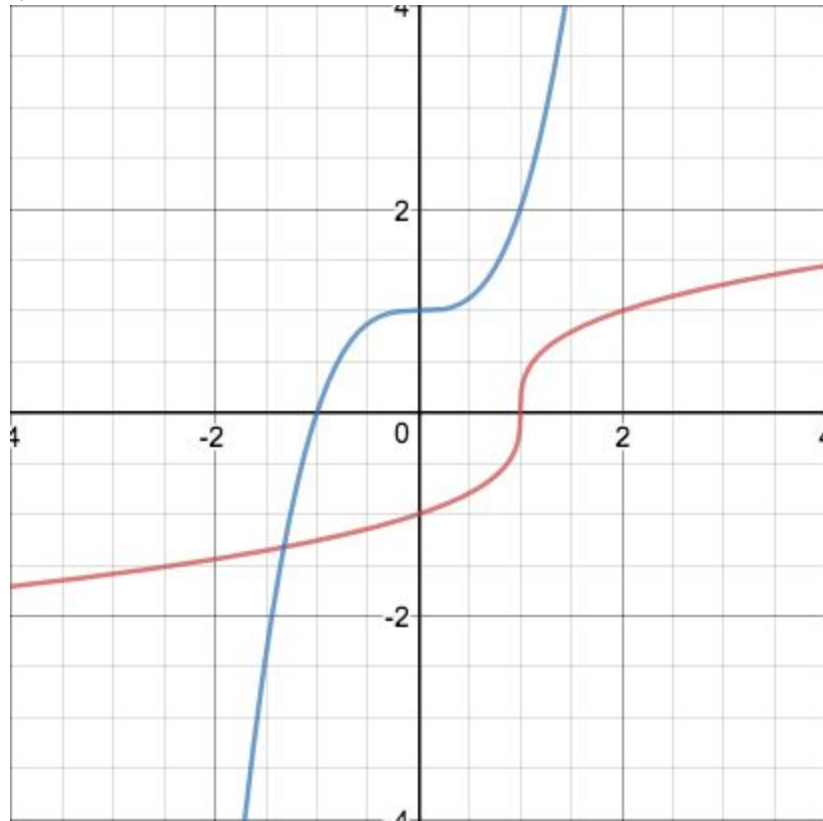
5) $2 \leq x \leq 18$

6)
 $x = 9$ is the only solution $x = 1$ is extraneous

7)
 $(x-2)^2+4$ or x^2-4x+8

8)
 *$x = -2$ is the only solution
 $x = 3$ is the extraneous*

9)



10) a) $d = \frac{s^2}{200}$

b) 312.5 ft