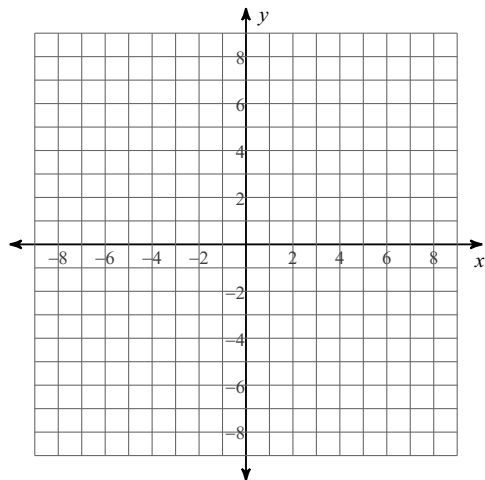


Graphing Radical Functions - Guided Notes

Graphing Square Roots

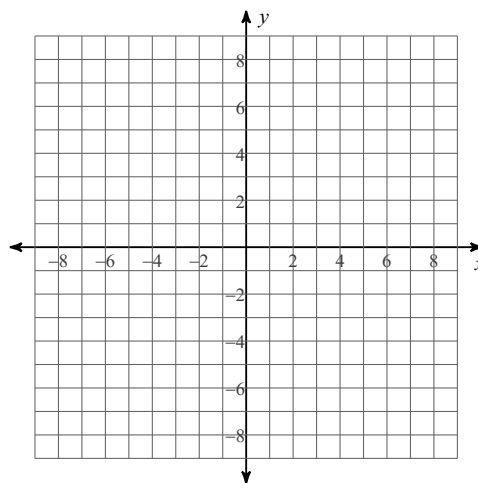
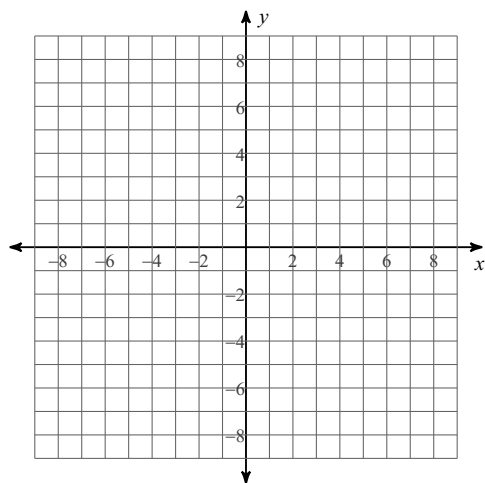
1) $y = x^2$

2) Find the inverse of $y = x^2$.



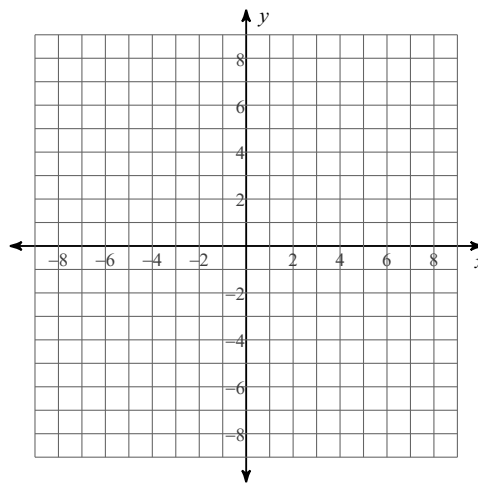
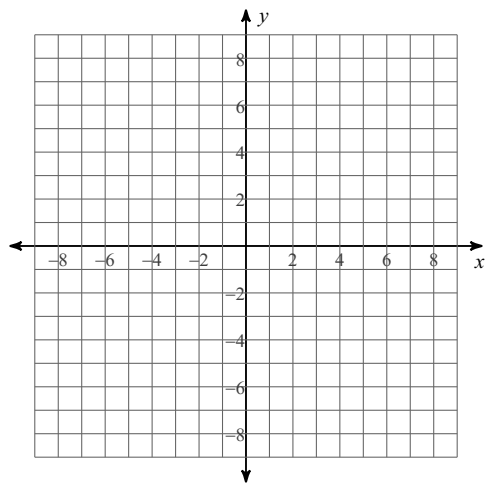
3) Now, graph $y = \sqrt{x}$

4) Try $y = \sqrt{x + 2} - 5$



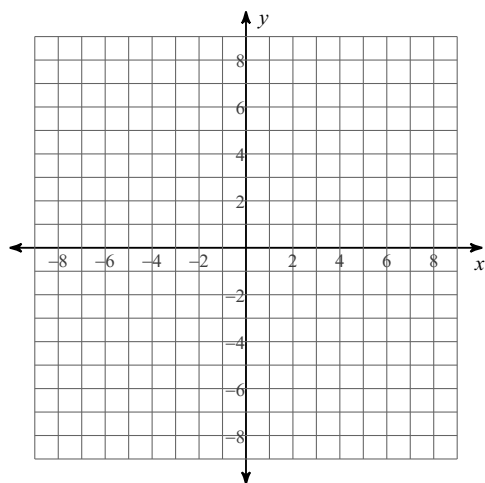
5) What about $y = 3\sqrt{x}$

6) So, now you can do $y = -2\sqrt{x - 3} + 1$



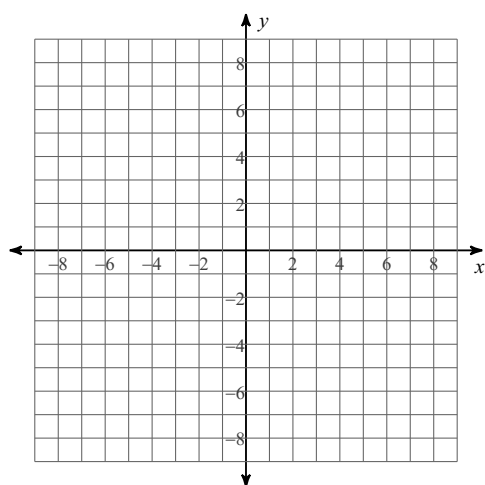
Graphing Cube-Roots

7) Graph the function $y = x^3$

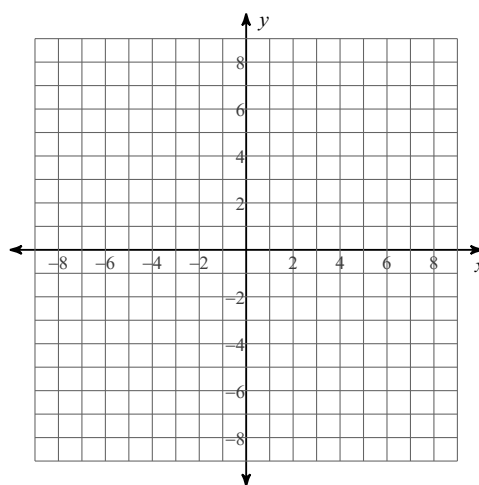


8) Find the inverse of $y = x^3$

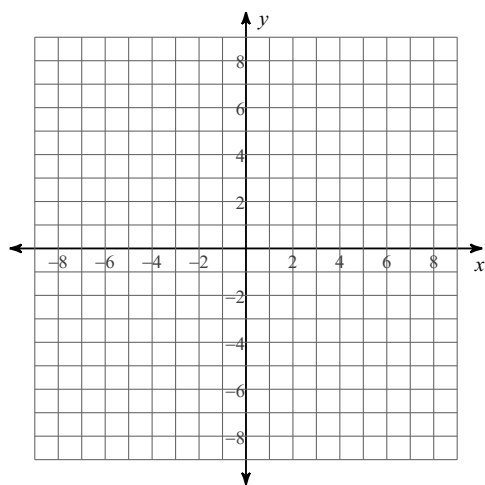
9) Based on the graph of #7, what is the graph of $y = \sqrt[3]{x}$?



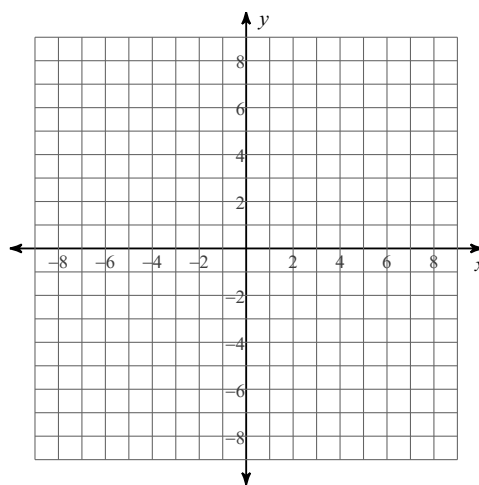
10) Using #9 as a guide, graph $y = \sqrt[3]{x+2} - 3$?



11) Now try the graph of $y = -2\sqrt[3]{x}$?



12) Now try the graph of $y = -2\sqrt[3]{x+4} - 3$?

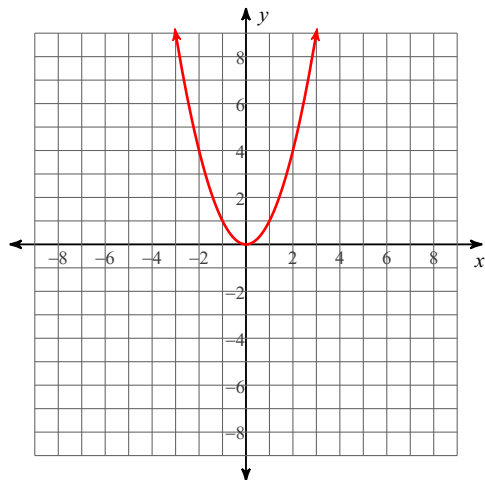


Graphing Radical Functions - Guided Notes

Graphing Square Roots

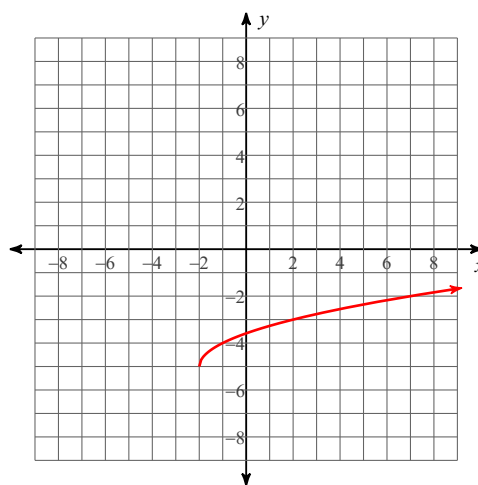
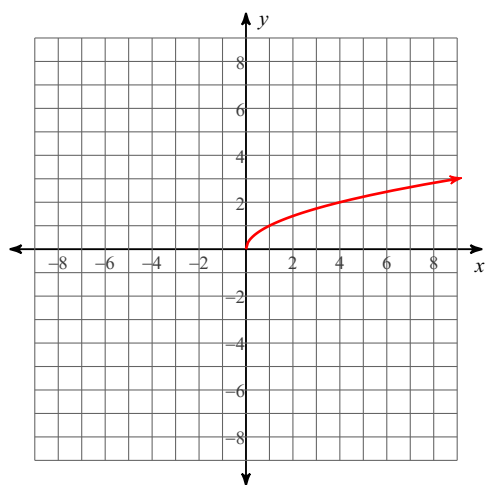
1) $y = x^2$

2) Find the inverse of $y = x^2$.



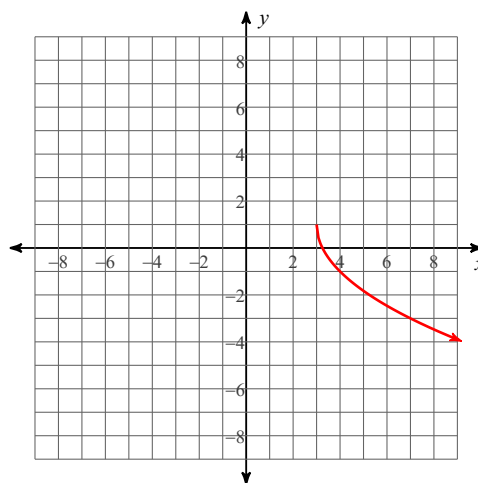
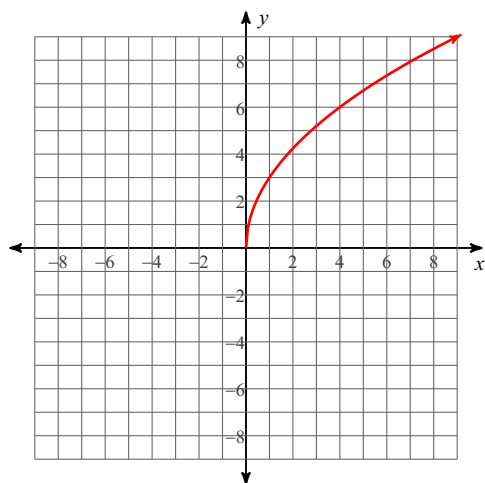
3) Now, graph $y = \sqrt{x}$

4) Try $y = \sqrt{x+2} - 5$



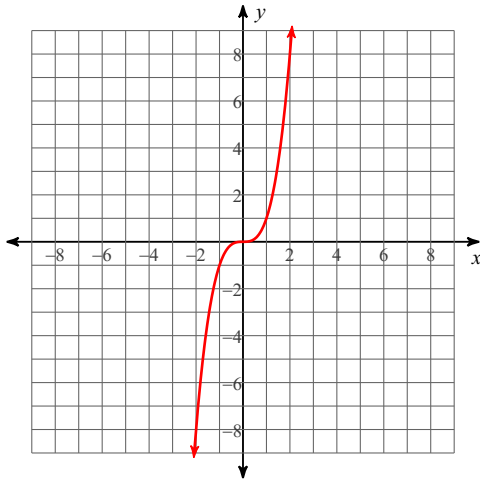
5) What about $y = 3\sqrt{x}$

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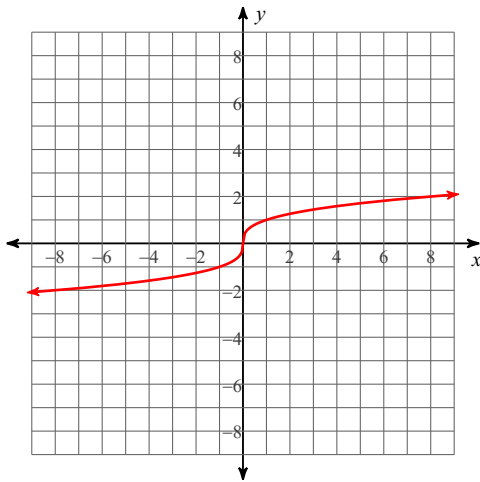
Graphing Cube-Roots

7) Graph the function $y = x^3$

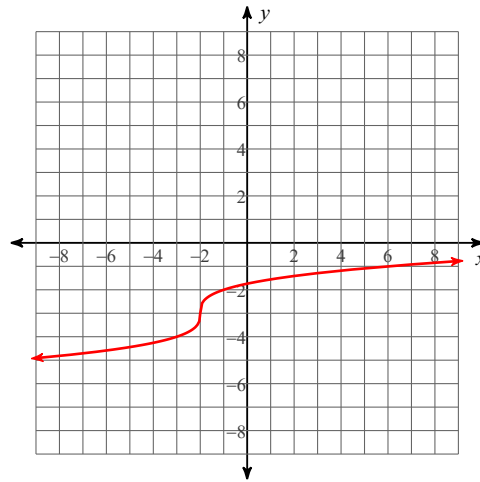


8) Find the inverse of $y = x^3$

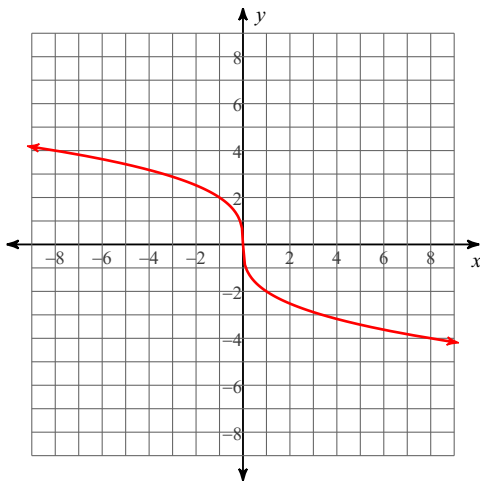
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