

Examples & Questions Examples 1

Part A

Q: How do you find x-values that make the radicand of \sqrt{ax} a perfect square? Q: Why is it important to be sure that the radicand of a square root function remains positive?

Part B

Q: Why is the cube root function allowed to have negative values in the radicand?

Examples 2

Q: How can you describe the effects of the coefficient of the radical, a, to the result of the radical expression and the graph?

Q: What key features can be determined from *h* and *k* of a square root function before graphing?

Examples 3

Q: What does it mean to rewrite the radical function to identify the transformation? Q: What must be done to the radicand to rewrite the radical function in the correct form?

Examples 4

Q: How can you tell that there might have been a vertical stretch by a factor of 2?

Examples 5

Q: Explain why the domain is restricted in the radical function problem. Q: Could you find the exact values represented by the radical function?

Practice and Problem Solving

Complete MathXL for School: Practice and Problem Solving (online) Complete MathXL for School: Enrichment (online)

Challenge: #12, 15, 28, 29, 32 – key will be posted in Power School Learning.

Lesson Quiz 5.1/Notes