

Algebra / Evaluating a cube root function

TimelyMathTutor Video:

ALEKS | Evaluating a cube root function



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Worked Examples:

Evaluating a cube root function

The function f is defined as follows.

$$f(x) = \sqrt[3]{x} + 6$$

Find $f(-64)$ and $f(125)$.

$f(-64) =$

$f(125) =$

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$$\sqrt[3]{32}$$

$$\sqrt[3]{2}$$

$$f(x) = \sqrt[3]{x} + 6$$

$$f(-64) = \sqrt[3]{-64} + 6$$

$$\sqrt[3]{-64} = -4 \cdot -4 \cdot -4 = -64$$

$$-4 + 6$$

$$f(-64) = 2$$

$$f(125) = \sqrt[3]{125} + 6$$

$$\sqrt[3]{125} = 5 \cdot 5 \cdot 5 = 125$$

$$5 + 6$$

$$f(125) = 11$$

Note: The Solve feature is not available to students.

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#GraphsAndFunctions

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