

College Algebra with Review

Chapter 3 Test Review - Key

1. Graphing, below are some examples (one on the test won't look like these but use the basic building blocks of graphing): (1 graphing problem)

<p>Graph:</p> $y = x^{\frac{8}{9}} - x - \sqrt{x} $ <p> "y=" button "clear" button "x-key" button "^" button "(" button 8 "/" button 9 ")" button "minus" button "math" button "right arrow" to NUM "enter" on abs("x-key" button "minus" button "2nd" button "x squared" button "x-key" button ")" button "graph" button </p>	<p>Graph:</p> $y = \left x^{\frac{1}{7}} + x^3 \right $ <p> "y=" button "clear" button "math" button "right arrow" to NUM "enter" on abs("x-key" button "^" button "(" button 1 "/" button 7 ")" button "plus" button "x-key" button "^" button 3 ")" button "graph" button </p>	<p>Graph:</p> $y = \left x^2 - \sqrt[3]{x} - 2 \right $ <p> "y" button "clear" button "math" button "right arrow" to NUM "enter" on abs("x-key" button "x squared" button "minus" button "math" button "down arrow" to cube root "enter" button "x-key" button ")" button "minus" button 2 ")" button "graph: button </p>
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2. $m = \frac{2}{7}$

3. $y = \frac{-13}{3}x - \frac{95}{3}$

4. Find the equation of the line that passes through a point and is either parallel or perpendicular to a line (1 of each type)

$y = \frac{-4}{3}x - \frac{13}{3}$	$y = -9x - 23$
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5. Evaluate a Function (2 evaluate a function problems)

a) -13 b) $25x^2 + 30x - 8$	a) $\frac{2}{7}$ b) $\frac{3x+4}{4x+14}$
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6. Find the domain and range given a graph (1 of this type)

domain : $(-\infty, \infty)$

range : $(-\infty, 4]$