

College Algebra with Review

Chapter 3 Test Review

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)

Graph: $y = x^{\frac{8}{9}} - x - \sqrt{x} $	Graph: $y = \left x^{\frac{1}{7}} + x^3 \right $	Graph: $y = \left x^2 - \sqrt[3]{x} - 2 \right $
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2. Find the slope of the line segment that falls between the points (-5, -2) and (-12, -4) (2 slope problems)

3. Find the equation of the line that falls between the points (-8, 3) and (-5, -10)

(2 equation of the line problems)

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)

Find the equation of the line that passes through the point (-4, 1) and is perpendicular to $3x - 4y = 2$	Find the equation of the line that passes through the point (-2, -5) and is parallel to $9x + y = 3$
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5. Evaluate a Function (2 evaluate a function problems)

Given $f(x) = x^2 + 8x - 1$, find: a) $f(-2)$ b) $f(5x - 1)$	Given $f(x) = \frac{3x - 5}{4x + 2}$, find: a) $f(3)$ b) $f(x + 3)$
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6. Find the domain and range given a graph (1 of this type)

