

Texas EOC Exam Success No. 2: Preparing Algebra Students Starting on Day One



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Presentation Objectives

- Explore a variety of ways the TI Graphing Technology can help your students feel confident going into the Texas Algebra 1 EOC.
- Participants will receive strategies that can help students to save time and avoid mistakes.
- Participants will leave with links to step-by-step tutorial guides to help you and your students make the most of their graphing technology.
- The TI-Nspire CX, TI-Nspire CX II, and TI-84+ CE handhelds are acceptable for use on the Texas EOC Grade 8 and Algebra 1 EOC exams.
- Opportunity for a participant to win a free registration to the T³ International Conference at the close of the webinar.

Algebra 1 Assessment Example

Encourage deeper mathematical understanding through grading in context

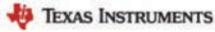
Given $f(x) = 8(3 - 2x)$, what is the value of $f(-10)$?

Rewrite Formula/Problem (+5 Pt)

Work Shown (+15 Potential Points)

Solution (+5 Pt) _____

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Exam Resources

Prepare your students – and their TI graphing calculators – for success on their high stakes exams.



Prepare your calculators for the test

Download easy-to-follow instructions to clear and configure TI-83, TI-84 Plus and TI-Nspire™ graphing calculators.

[Learn more >](#)



Tips for TI-Nspire™ CX graphing calculators

Watch fun videos and download the [best practices guide](#) to discover great ways to save time and avoid mistakes.

[Watch the videos >](#)



Tips for TI-84 Plus CE graphing calculators

Learn how to save time and avoid mistakes using the great ways described in these fun videos and [best practices guide](#).

[Watch the videos >](#)

Algebra 1 Test Strategy: Graph Whenever Possible!

Given $f(x) = 8(3 - 2x)$, what is the value of $f(-10)$?

Rewrite Formula/Problem (+5 Pt)

Work Shown (+15 Potential Points)

Solution (+5 Pt) _____

Algebra ! Test Strategy: Calculator Tools!

For what value of b will $f(x) = x^2 + bx + 625$ have -25 as its only zero?

Record your answer and fill in the bubbles on your answer document.

Algebra 1 Test Strategy: Compare, Compare, Compare! Store Values for Variables

The value of y varies directly with x . Which function represents the relationship between x and y if $y = \frac{15}{4}$ when $x = 20$?

A $y = 300x$

B $y = \frac{3}{16}x$

C $y = 75x$

D $y = \frac{16}{3}x$

Algebra 1 Test Strategy: Regression for Prediction

Question

The table shows the population, r , of rabbits in a field at the end of m months.

Rabbit Population

Time, m (months)	Population, p
0	4
1	12
2	36
3	108
4	324

Based on the data in the table, what will be the population of rabbits in the field at the end of 9 months?

- A. 52,643
- *B. 78,732
- C. 236,196
- D. 451,932

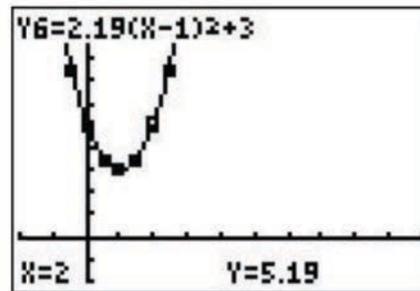
TI 84 Central Activity: Algebra 1: Manual Fit

Algebra I: Manual Fit

by Texas Instruments - Bell Ringer Lesson

Overview

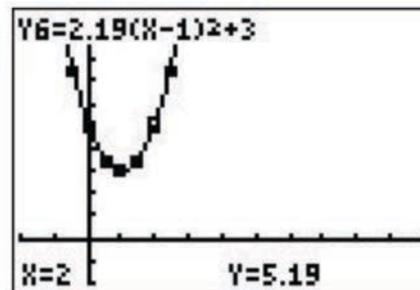
Students manipulate parabolas so that the curve matches a set of data points.



Key Steps

1 2

Students will review features of the vertex form of a parabola, and are given plotted points to match.



TI Math Nspired Activity: Investigating Correlation

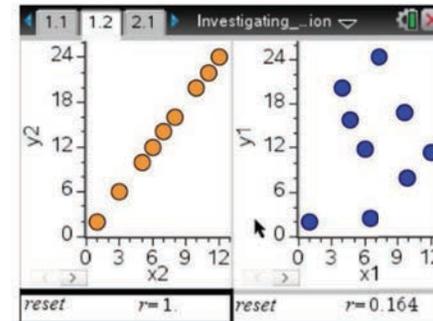
Investigating Correlation

Activity Overview

This lesson involves investigating the connection between the scatterplot of bivariate data and the numerical value of the correlation coefficient.

Objectives

- Students will recognize that the correlation coefficient describes the strength and direction of the linear association between two variables.
- Students will recognize that when two variables are highly linearly correlated, their correlation coefficient will be close to 1, and when they have little correlation, the correlation coefficient will be close to 0.
- Students will recognize that two variables with a high correlation coefficient might have a scatterplot that displays a nonlinear pattern.
- Students will recognize that correlation is not affected by the choice of x or y, that is, by the choice of which variable is explanatory and which is response.



Texas 8th Grade Math and Algebra 1 EOC Exam Strategies Workshops

Texas 8th Grade Math EOC Exam Strategies with the TI-84 Plus CE Graphing Calculator

Texas 8th Grade Math EOC Exam Strategies with TI-Nspire™ Technology

Texas Algebra 1 EOC Exam Strategies with the TI-84 Plus CE Graphing Calculator

Texas Algebra 1 EOC Exam Strategies with TI-Nspire™ Technology

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