

Calculus, Algebra II, Statistics. Using TI-84, or 84+, or CE to make Linear and Exponential...

Lesson 101 | Algebra II | Graphing and fitting models

<https://www.youtube.com/watch?v=OwyQ6hWcKbE>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

- 01** The data points are (0,6), (1,13), (2,20), (3,27). Find a linear model, predict y at $x=11$, and describe how to verify with a graphing calculator.

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- 02** The data points are (0,5), (1,13), (2,21), (3,29). Find a linear model, predict y at $x=8$, and describe how to verify with a graphing calculator.

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- 03** The data points are (0,4), (1,17), (2,30), (3,43). Find a linear model, predict y at $x=6$, and describe how to verify with a graphing calculator.
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04

The data points are (0,7), (1,9), (2,11), (3,13). Find a linear model, predict y at $x=7$, and describe how to verify with a graphing calculator.

05

The data points are (0,2), (1,5), (2,8), (3,11). Find a linear model, predict y at $x=8$, and describe how to verify with a graphing calculator.

06

The data points are (0,8), (1,21), (2,34), (3,47). Find a linear model, predict y at $x=11$, and describe how to verify with a graphing calculator.

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- 01** The data points are (0,6), (1,13), (2,20), (3,27). Find a linear model, predict y at $x=11$, and describe how to verify with a graphing calculator.
- Each unit increase in x adds 7; model $y=7x+6$. Prediction 83. Enter x/y lists, run linear regression, and check slope 7, intercept 6, and zero residuals.
- 02** The data points are (0,5), (1,13), (2,21), (3,29). Find a linear model, predict y at $x=8$, and describe how to verify with a graphing calculator.
- Each unit increase in x adds 8; model $y=8x+5$. Prediction 69. Enter x/y lists, run linear regression, and check slope 8, intercept 5, and zero residuals.
- 03** The data points are (0,4), (1,17), (2,30), (3,43). Find a linear model, predict y at $x=6$, and describe how to verify with a graphing calculator.
- Each unit increase in x adds 13; model $y=13x+4$. Prediction 82. Enter x/y lists, run linear regression, and check slope 13, intercept 4, and zero residuals.

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04

The data points are (0,7), (1,9), (2,11), (3,13). Find a linear model, predict y at $x=7$, and describe how to verify with a graphing calculator.

Each unit increase in x adds 2; model $y=2x+7$. Prediction 21. Enter x/y lists, run linear regression, and check slope 2, intercept 7, and zero residuals.

05

The data points are (0,2), (1,5), (2,8), (3,11). Find a linear model, predict y at $x=8$, and describe how to verify with a graphing calculator.

Each unit increase in x adds 3; model $y=3x+2$. Prediction 26. Enter x/y lists, run linear regression, and check slope 3, intercept 2, and zero residuals.

06

The data points are (0,8), (1,21), (2,34), (3,47). Find a linear model, predict y at $x=11$, and describe how to verify with a graphing calculator.

Each unit increase in x adds 13; model $y=13x+8$. Prediction 151. Enter x/y lists, run linear regression, and check slope 13, intercept 8, and zero residuals.