

Population Predictions

TI-Nspire Activity – Finding Linear Regression Equations

Problem 1 Population growth of Hendersonville

To add a movable line: Menu, Analyze, Add Movable Line

To find the linear regression: Menu, Analyze, Regression, Show Linear
($mx=b$)

- _____ What is the equation of the movable line?
- _____ What is the regression equation?
- _____ How are these equations similar?
- _____ How are they different?
- _____ Population in 2010
- _____ Population in 2017
- _____ Population in 2030

Problem 2 *Population growth of Tennessee*

- _____ What is the equation of the movable line?
- _____ What is the regression equation?
- _____ How are these equations similar?
- _____ How are they different?
- _____ Population in 2010
- _____ Population in 2020
- _____ Population in 2050

Problem 3 *Population of your school*

- _____ What is the regression equation?
- _____ How might this information be useful?
- _____ Population in 2015
- _____ Population in 2020
- _____ Population in 2025
- _____ When will your school outgrow the current building's capacity?