Warm Up

Ne_{ed} Graphing Calculator???

*Pick up Properties DLT and Graphing DLT.

Writing Equations DLT-together

Warm Up

*When finished just flip it over and complete the homework quiz.

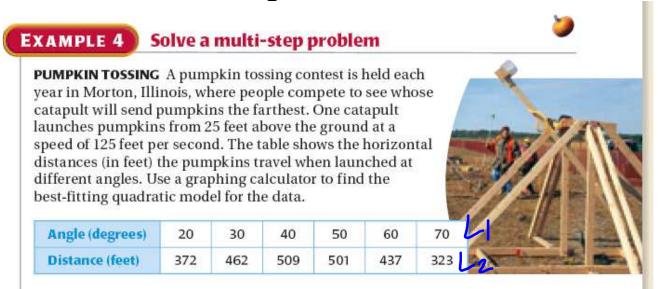
*Trade and Grade

Homework Questions

*Word Problems?

Chapter 4 Quadratic Functions (4.10)Best-fitting Quadratic Model

Best-fitting Quadratic Model



Step 1: Enter data into L_1 and L_2 . (Stat-> 1:Edit)

Step 2: Make a scatterplot of the data. (Stat Plot on and adjust window for data)



Step 3: Use quadratic regression feature to get the best-fitting quadratic model.



(Stat->Calc->5:QuadReg)

The best-fitting quadratic model is $y = -0.261x^2 + 22.6x + 23.0$.

Step 4: Check how well the model fits the data.

(Enter equation into y_1)



Questions:

- 1.) At what angle does the pumpkin travel the farthest? Explain.
- 2.) Use the model, how far does the pumpkin travel, when the angle is 80 degrees?

Study Guide

- ★ Factoring & Solving by Factoring
- ★ Solve by Square Roots
- ★ Solve by Completing the Square
- ★ Solve by Quadratic formula/ discriminant
- ★ Imaginary Numbers- +/-/x
- Complex Conjugates $\frac{4-i}{3-i}$ Solve with Imaginary #'s
- - ★ Word Problems

And your assignment:

Word problem ws Pg 312 #3, 10-12, 20-23 Pg 314 #49, 50 Homework:

Review ws (Due on Test Day)