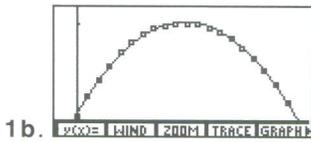
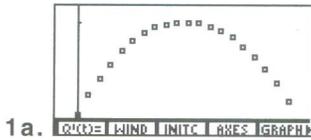
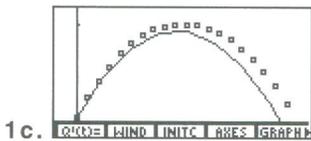


Chapter 4: Projectile Motion



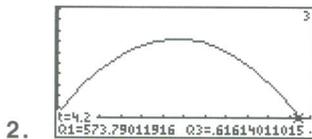
$$y = -4.58x^2 + 3.60x + 31$$



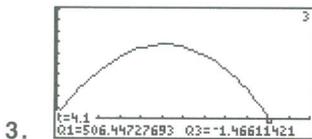
Changing the differential equation to

$$\frac{d^2y}{dt^2} = 9.16$$

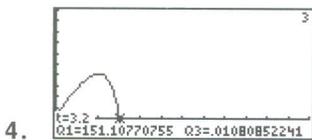
produces a better fit since -9.16 is twice the coefficient of x^2 in the equation found in **1 b**.



About 574 feet



Slightly less than 506 feet



About 151 feet