

Linear	Quadratic	Exponential	Other																																												
<p>Archimedes is draining his bathtub. Every 2 minutes that pass, 7 gallons of water are drained.</p> <p style="text-align: right;">Σ</p> <p>As a science experiment, Lori tested the strength of a bridge she built from straws. After she noted the mass of a paper cup and of a nickel, she set her bridge on the desk and put the cup on it. She added nickels, x, to the cup and recorded the resulting total mass in grams, y, until the bridge collapsed. Here are a few values of her data: (8, 50.2), (15 85.2) & (21, 115.2).</p> <p style="text-align: right;">Δ</p> <p>Glenna wants to rent a car for a trip to Key West for one week. She calls two car rental companies to get prices. Mr. Kotter’s Rentals rents a Cadillac Escalade for \$99 for one week plus \$0.11 per mile over 100 miles. Barbarino’s Rentals has the same vehicle for \$75 per week and \$0.15 per mile over 150 miles.</p> <p style="text-align: right;">π</p>	<p>An object is launched directly upward at 64 feet per second (ft/s) from a platform 80 feet high.</p> <p style="text-align: right;">λ</p> <p>A study was done to compare the speed x (mph) with the mileage y (mpg) of an automobile.</p> <table border="1" data-bbox="590 639 804 1247"> <thead> <tr> <th>Speed</th> <th>Mileage</th> </tr> </thead> <tbody> <tr><td>30</td><td>18</td></tr> <tr><td>35</td><td>20</td></tr> <tr><td>40</td><td>23</td></tr> <tr><td>45</td><td>25</td></tr> <tr><td>50</td><td>28</td></tr> <tr><td>55</td><td>30</td></tr> <tr><td>60</td><td>29</td></tr> <tr><td>65</td><td>25</td></tr> <tr><td>70</td><td>25</td></tr> </tbody> </table> <p style="text-align: right;">β</p> <p>A gun is fired straight upward. The bullet leaves the gun at 100 feet per second.. After 2 seconds the velocity of the bullet is 36 feet per second.</p> <p style="text-align: right;">μ</p>	Speed	Mileage	30	18	35	20	40	23	45	25	50	28	55	30	60	29	65	25	70	25	<p>Mr. Clark told his English class that each week students tend to forget one sixth of them vocabulary words they learned the previous week.</p> <p style="text-align: right;">α</p> <p>The following data represents the amount of money an investor has in an account each year for 10 years.</p> <table border="1" data-bbox="1066 716 1339 1239"> <thead> <tr> <th>Year</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>2000</td><td>\$6800</td></tr> <tr><td>2002</td><td>\$7300</td></tr> <tr><td>2004</td><td>\$7900</td></tr> <tr><td>2006</td><td>\$8600</td></tr> <tr><td>2008</td><td>\$9300</td></tr> <tr><td>2010</td><td>\$10000</td></tr> </tbody> </table> <p style="text-align: right;">θ</p>	Year	Value	2000	\$6800	2002	\$7300	2004	\$7900	2006	\$8600	2008	\$9300	2010	\$10000	<p>The following data represents the average monthly temperatures in South Dakota.</p> <table border="1" data-bbox="1543 407 1816 781"> <thead> <tr> <th>Month</th> <th>Temp</th> </tr> </thead> <tbody> <tr><td>Jan</td><td>22</td></tr> <tr><td>April</td><td>57</td></tr> <tr><td>Aug</td><td>84</td></tr> <tr><td>Oct</td><td>58</td></tr> </tbody> </table> <p style="text-align: right;">ϕ</p>	Month	Temp	Jan	22	April	57	Aug	84	Oct	58
Speed	Mileage																																														
30	18																																														
35	20																																														
40	23																																														
45	25																																														
50	28																																														
55	30																																														
60	29																																														
65	25																																														
70	25																																														
Year	Value																																														
2000	\$6800																																														
2002	\$7300																																														
2004	\$7900																																														
2006	\$8600																																														
2008	\$9300																																														
2010	\$10000																																														
Month	Temp																																														
Jan	22																																														
April	57																																														
Aug	84																																														
Oct	58																																														