

1. (0, 5), (1, 6), (2, 7), (3, 9), (4, 13)
 - a. Write the exponential model: $y = an^x$
 - b. Convert to the exponential model: $y = ae^{bx}$
 - c. Find the coefficient of Determination
2. (1, 2.0), (2, 3.0), (3, 3.5), (4, 4.0), (5, 4.1), (6, 4.2), (7, 4.5)
 - a. Write the logarithmic model: $y = a + b \ln x$
 - b. Find the coefficient of Determination
3. (2, 450), (4, 385), (6, 435), (8, 332), (10, 312)
 - a. Write the power model: $y = ax^b$
 - b. Find the coefficient of Determination

4. The table Shows the retail prices P (in dollars) of a half-gallon package of ice cream from 1995 to 2004. Let $t = 0$ represent the year 1990.

Year	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
P	2.68	2.94	3.02	3.30	2.40	3.66	3.84	3.76	3.90	3.85

- a. Find a quadratic model: $P = at^2 + bt + c$
- b. Find the exponential model: $P = an^t$
- c. Find the power model: $P = at^n$
- d. Complete the Table:

Year	Quad	Exp	Pwr
2005			
2006			
2007			
2008			
2009			
2010			