Sales per Share   The table shows the sales per share S (in dollars) for Kohl's Corporation from 2002 through 2017. (*Source:* Kohl's Corp.)

Year	Sales per share, S
2002	27.04
2003	30.23
2004	34.08
2005	38.84
2006	48.43
2007	53.06
2008	53.73
2009	55.95
2010	63.20
2011	76.13
2012	86.84
2013	90.19
2014	94.64
2015	103.25
2016	107.39
2017	113.65

(a) Use the *linear regression*, *quadratic regression*, and *exponential regression* features of a graphing utility to find a linear model, a quadratic model, and an exponential model for the data. Let t represent the year, with $t = 2$ corresponding to 2002.

(b) Use the graphing utility to plot the data and graph each model from part (a) in the same viewing window.

(c) Which model do you think best fits the data? Explain your reasoning.

(d) For each model, find the r^2-value (the coefficient of determination) determined by the graphing utility. Use the results to choose which model best fits the data. Compare your results with part (c). (Recall that the coefficient of determination gives a measure of how well a model fits a data set. The closer the value of the coefficient of determination is to 1, the better the fit.)

(e) Use the model that best represents the data to predict the sales per share for Kohl's in 2025.