Project: Meteorology The table shows the monthly normal daily high temperatures (in degrees Fahrenheit) for Phoenix, Arizona (P) and Seattle, Washington (S). In the table, t represents the month, with t=1 corresponding to January. (Source: NOAA)

DATA	Month, t	P	S
n	1	67.2	47.2
.cor	2	70.7	49.9
ılus	3	76.9	53.7
alcı	4	85.2	58.5
rec	5	94.8	64.7
onF	6	103.9	69.9
ars	7	106.1	75.8
at I	8	104.4	76.3
leet	9	99.8	70.5
ıdsk	10	88.5	59.7
Spreadsheet at LarsonPrecalculus.com	11	75.5	50.9
S	12	66.0	45.7

- (a) Use the *sine regression* feature of a graphing utility to find sine models to fit each set of data.
- (b) Use the graphing utility to graph each model from part (a) with the original data. How well does each model fit the original data?
- (c) A normal daily high temperature of 66°F is reported. Determine the month(s) in which this temperature is most likely reported in each city, if possible. Explain.
- (d) A normal daily high temperature of 75°F is reported. Determine the month(s) in which this temperature is most likely reported in each city, if possible. Explain.