Post 2

Choose one of your classmate's posts that has not been responded to and do the following.

- Check your classmate's solution. If there is an error, tactfully explain the error, but do not post a correction. Instead, allow your classmate to post the correction.
- Choose one of the variables, T, A, N or R, and increase it. How is W affected? Did you expect that? Why or why not?
- Change the same variable, but this time, decrease it. How is W affected? Did you expect that? Why or why not?

Post 2 Example

NOTE: Not all parts of the Discussion are included in this Example. Read the Discussion Question thoroughly and respond to all parts of the Question.

I am going to increase the temperature, T, to see what happens to W, the water bill. Instead of 72 degrees, I will use 82 degrees.

$$W = \frac{0.0026(T)(A)\sqrt{N}}{R}$$
$$W = \frac{0.0026(82)(1200)\sqrt{2}}{4}$$
$$W = \frac{361.8123978}{4}$$
$$W = 90.45309945$$
$$W \approx \$90.45$$

When the temperature rises from 72 degrees to 82 degrees, the water bill increases from $79.42 to $90.45.

Now I am going to decrease the temperature, T, to see what happens to W, the water bill. Instead of 72 degrees, I will use 62 degrees.

$$W = \frac{0.0026(T)(A)\sqrt{N}}{R}$$
$$W = \frac{0.0026(62)(1200)\sqrt{2}}{4}$$
$$W = \frac{273.5654715}{4}$$
$$W = 68.39136788$$
$$W \approx \$68.39$$

When the temperature decreases from 72 degrees to 62 degrees, the water bill increases from $79.42 to $68.39.