1.) When the baker turned off the oven the temperature was $400℉$. The oven cooled off $14℉$ per minute. After a while the temperature in the oven was $85℉$. Write and solve an equation to find the number of minutes it took the oven to cool down.

EQ: Variables:

2.) Beneath the Earth’s surface, the temperature increases $10°C$ every kilometer. Suppose that the surface temperature is $22°C$, and the temperature at the bottom of the gold mine is $45°C$. Write and solve an equation to find the depth of the mine. Round your answer to the nearest tenth if needed. Define your variables.

EQ: Variables:

3.) One health insurance policy pays people for claims by multiplying the claim amount by 0.8 and then subtracting $500. If a person receives a check for $4650, how much was the claim amount?

EQ: Variables:

4.) A state park charges admission of $6 per person plus $3 for parking. Jo paid $27 when her car entered the park. Write and solve an equation to find the number of people in Jo's car.

EQ: Variables:

Solve the following equations:

1.) 2.)

3.) 4.)

5.) 6.)