1.	Radium-226 has a half-life of 1590 years. Assume one starts with 50 mg of Radium-226. Find an expression
	for the amount m of Radium-226 in terms of t .

2. When a cup of coffee is poured it is 95 degrees Celsius. After 10 minutes the coffee has cooled to 80 degrees Celsius. If the surrounding temperature is 20 degrees Celsius, find an expression for the temperature of the coffee T in terms of time t.