```
>> %Exercise 1.1
>> %a
>> 1/0
ans =
  Inf
>> %A positive number divided by zero is always infinity.
>> %b
>> 0/0
ans =
  NaN
>> %Zero divided by zero is indeterminate
>> %c
>> 0/1
ans =
     0
>> %Zero divided by a finite number is always zero.
>> (2 + 10^{(-160)}) / 2
ans =
     1
>> %The distance from one is less than machine epsilon
>> %Exericise 1.6
>> %a
>> 100(1 + 0.01/(365 * 24))^(365*24)
100(1 + 0.01/(365 * 24))^{(365*24)}
    1
Error: Invalid expression. When calling a function or indexing a variable, use \checkmark
parentheses. Otherwise, check for mismatched delimiters.
>> 100*(1 + 0.01/(365 * 24))^(365*24)
ans =
 101.0050
>> %b
>> 100*(1 + 0.01/(365 * 24*60*60))^(365*24*60*60)
ans =
```

```
101.0050
>> %c
>> 100*(1 + 0.01/(365 * 24*60*60*1000))^(365*24*60*60*1000)
ans =
 101.0050
>> %d
>> 100*(1 + 0.01/(365 * 24*60*60*1000*1000))^(365*24*60*60*1000*1000)
ans =
 100.7027
>> %e
>> 100*(1 + 0.01/(365 * 24*60*60*1000*1000*1000))^(365*24*60*60*1000*1000)
ans =
  100
>> %f
>> %The problem occurs because r/n becomes too close to machine epsilon. Therefore, for a {f c}
given r we would expect an error when n > r * 2 * 10^16.
>>
```