Esercizio 1

```
halflife := {4.5 * 10^9, 7.14 * 10^8}

timeConstant := halflife / Log[2]

decayConstant := 1 / timeConstant

timeConstant
```
$\{6.49213 \times 10^9, 1.03008 \times 10^9\}$

```
decayConstant
```
$\{1.54033 \times 10^{-10}, 9.70794 \times 10^{-10}\}$

```
t[r_] := - (Log[r]) / (decayConstant[[2]] - decayConstant[[1]])

t[0.007]
```
6.07502×10^9