1



dA = 0.0509A

dt

***dA***

***A***

**∫ = ∫*0.0509dt***

***ln(A) = 0.0509t + c***

subs t = 0, A = 1250 so ln(1250) = c

so that ln A = 0.0509t

 1250

 A = 1250 e0.0509t

Subs t = 5

A = 1250 e 0.0509×5

 = $1612.27

1



1



1

