HW4\_Patrick Neyland

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## Question 1

### Part i

shows the relative change in price of the house as the distance from the new garbage incinerator changes. ##### A one percent increase in distance, holding all else constant, will result in .132 percent in price on average.

## Question 2

library(stargazer)

Please cite as:

Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.

R package version 5.2.3. https://CRAN.R-project.org/package=stargazer

x<- 1:30  
y <- c(1)  
for (i in x){  
 y[i] <- 1.1\*tail(y,1)  
}  
y

[1] 1.100000 1.210000 1.331000 1.464100 1.610510 1.771561 1.948717  
 [8] 2.143589 2.357948 2.593742 2.853117 3.138428 3.452271 3.797498  
[15] 4.177248 4.594973 5.054470 5.559917 6.115909 6.727500 7.400250  
[22] 8.140275 8.954302 9.849733 10.834706 11.918177 13.109994 14.420994  
[29] 15.863093 17.449402

library(jtools)  
summ(lm(y~x))

MODEL INFO:  
Observations: 30  
Dependent Variable: y  
Type: OLS linear regression   
  
MODEL FIT:  
F(1,28) = 218.29, p = 0.00  
R² = 0.89  
Adj. R² = 0.88   
  
Standard errors: OLS  
------------------------------------------------  
 Est. S.E. t val. p  
----------------- ------- ------ -------- ------  
(Intercept) -1.86 0.61 -3.04 0.01  
x 0.51 0.03 14.77 0.00  
------------------------------------------------

#stargazer(lm(y~x), lm(log(y)~x), type="text")

## Question 3

## Question 4

## Question 5

## Question 6