Benjamin Silver

ECE3710

HW7

2.12.23

1.)

The calculated Correlation Coefficient is: 1.0

The verified Correlation Coefficient is: 0.8214

This means there was an error of: 0.1786

2.)

a.) The correlation between temperature and yield is: 0.7323

b.) The correlation between stirring rate and yield is: 0.7513

c.) The correlation between temperature and stirring rate is: 0.9064

3.)

A.)

B.) y = 19.52361 - 2.24529(x)

C.) -25.3823

D.) y = 0.39396 + 0.035509(x)

E.) y = 19.12965 - 2.2808(x)

Infinity?

4.) The precision for both seems to suggest that the linear model might not make sense for these values. It definitely still has its place, but doesn't seem that it would help much here.