

## Problem 3

January 19, 2021

Question 3a and 3b (scroll down to see the plot)

```
[1]: x = seq(from = -3, to = 3, length = 1000)
      y1 = x^2
      y2 = 2^x

      plot(x,y1,main=expression("Graph for"~x^{2}~"and"~2^{x}),
            col=1,
            xlab="x-axis",
            ylab="y-axis",
            type= 'l',
            xlim=c(-3,3))
      lines(x,y2,col= 2,lty = 2,lwd= 2)
      legend(x=0,y=6,col=1:2,pch=c(NA,NA),lty = c(1,2),
            c(expression(x^{2}),expression(2^{x})))
```

Graph for  $x^2$  and  $2^x$

