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Homework 5

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```
library(tidyverse)
library(ISLR)
library(caret)
library(e1071)
```

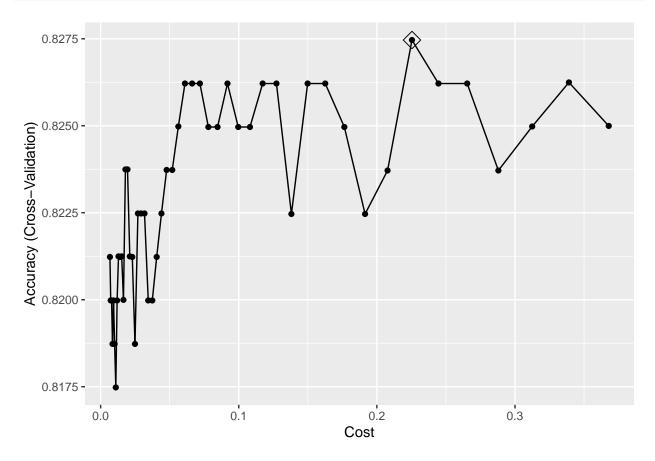
Load, clean, and tidy data

Question a

svml.fit\$bestTune

```
## cost
## 44 0.2254187
```

```
ggplot(svml.fit, highlight = TRUE)
```



```
pred_train = predict(svml.fit)
mean(train$purchase != pred_train)
```

```
## [1] 0.17
```

```
pred_test = predict(svml.fit, newdata = test, type = "raw")
mean(test$purchase != pred_test)
```

[1] 0.1518519

The training error rate is 0.17.

The test error rate is 0.15.

Question b