Homework 4

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For the following confusion matrix,

calcualte

- a. Accuracy
- b. Sensitivity (true positive rate)
- c. Specifcity (true negative rate)
- d. Positive predictive value
- e. Negative predictive value

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Let

```
y_hat <- seq(.1, .7, by = .05)
y <- c(0, 0, 1, 0, 1, 1, 0, 1, 1, 1)</pre>
```

- a. Plot the ROC curve.
- b. Find the area under the ROC curve.