## Question 1. (4 points)

Push model

The signature of update()

```
public void update(int i);
```

implies that the new value (x or y coordinate) is pushed to the observer by the model. The observer does not have a reference to the model, so it would not be able to pull the data from the model.

## Question 2 (3 points)

should always be applied with continuous testing should preserve the semantics of code eliminates code duplication and/or other code smells

See slides 6 and 8 from Refactoring.pdf.

## Question 3 (3 points)

Replace Temp with Query

See slide 33 from Refactoring.pdf.