1. Expected Value

1. $E(x) = -0.033$

2. $r > 2.4c$

2. Expected Value

1. $P(5) = P(10) = \cdots = 0.05$

2. $E(x) = 52.5$

3. $\sigma = 28.83$

4. $P(x = 0) = \frac{1}{5}$

3. Binomial Random Variable

1. $E(x) = 32$

2. $\sigma = 4.66$

3. Between 22 and 42.

6. 0.05585

4. Poisson Random Variable

1. 4

3. 0.2381

4. 0.0183

5. 0.3712

6. 0

5. Train Delays

From 6 onwards.

6. Website Visits

1. 0.00004206

2. 179

7. Tracking Missiles

2. $P(x = 15) = 0.17$

3. $P(x \geq 15) = 0.80$

4. 16