Answer Key

1. $E[X] = \frac{1}{6}(1) + \frac{5}{6}(1 + E[X])$
   $E[X] = 6$

2. a. 36

    b. 11

    c. $\frac{11}{36}$

    d. $E[X] = \frac{11}{36}(1) + \frac{25}{36}(1 + E[X])$
       $E[X] = \frac{36}{11}$