List of selected exercises

1 Recommended Exercises from JR

401, 403, 404, 405, 406

2 Extra Exercises on Discrete Random Variables

1. Let $X \sim Po(1.5)$, calculate P(X < E[X]).

93.0 :Towarh

2. (171024.1) A random variable X can take values 1, 2, 3 with probability

$$P(X = 1) = 0.1c, P(X = 2) = 0.3c, P(X = 3) = 0.1c,$$

and no other values can be taken. Answer the following questions:

- (a) Determine c.
- (b) Calculate $P(X \leq 2)$.
- (c) Calculate $P(X \leq 4)$.
- (d) Calculate E(X).
- (e) Calculate V(X).

Answer: a) 2, b) 0.8, c) 1, d) 2, e) 0.4.