1 Question 3.6

In a population of 200 voters, 70 are registered with Party A and the other 130 are registered with Party B. A simple random sample of 40 voters is drawn from this population. Let V be the number of sampled voters who are registered with Party A, and let W=40V be the number of sampled voters who are registered with Party B Find:
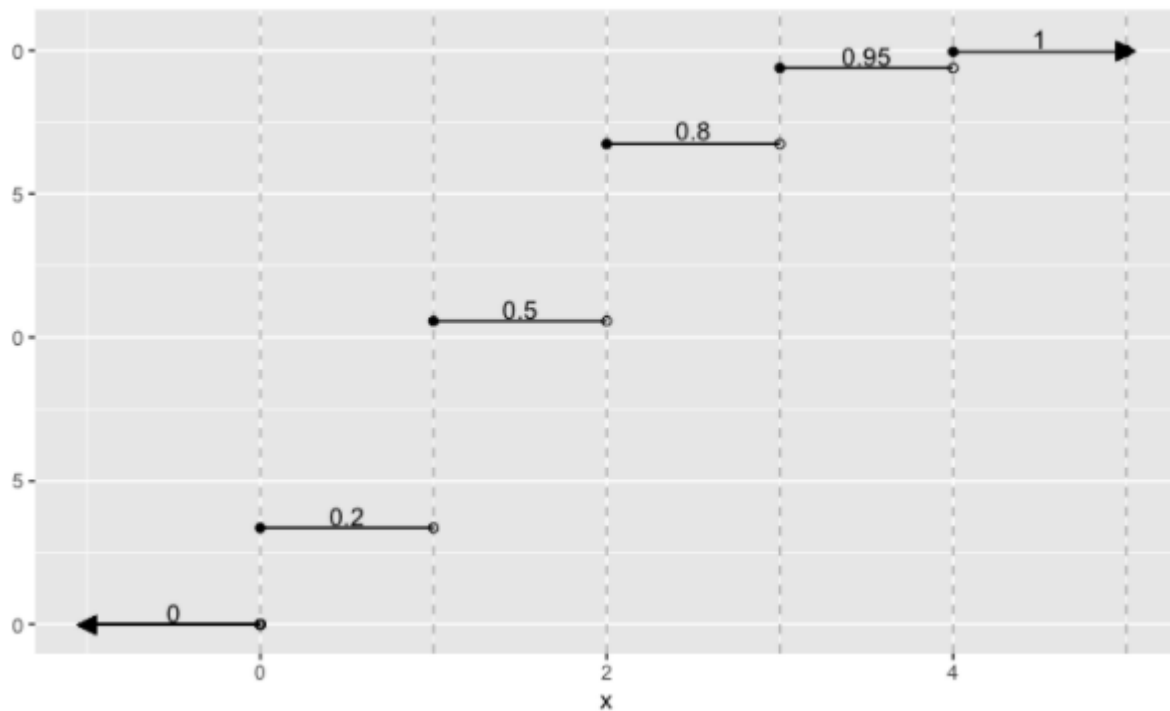
a) $P(V = 10)$

b) $P(V > 10)$

c) $P(W < 3V)$

d) $F(V)$ (The CDF of V)

2   Question 1.4

2. A random variable W has the distribution shown in the table below. Sketch a graph of the cdf of W .

w	-2	-1	0	1	3
$P(W = w)$	0.1	0.3	0.25	0.2	0.15

3 Previous Quiz Question

The figure above is the graph of the cdf of a random variable X. The numbers on the line segments are the values of F(x).

Use it to answer the following questions:

a.) What is $P(X = 1)$?

b.) What is $P(1 \leq X \leq 3)$?

b.) What is $P(|X - 1| > 1)$?