a) pof shows how consinues random variables are suchused for

probability of events between XI and X2 such that

Pr ([x = x = x = x = 3) =) p(x) + x

- colf show can lade destales an for the function by redigarous of polf is defined by

P(4)=1- {X < x }= 1 p(x 1) d x 1

se pof it roste of change for colf such short

Deco = p(x) d x (p(x) = dp(x)

coff for beginner a aid & ;

P(a = x = b) = [P(x1)dx'=P(a)-P(b) where if b=a. Mr. P(a = x = a) = p

b) eff = $\int x dx + \int (-x+2)dx$ = $\frac{x^2}{2} \Big|_0^1 + \Big(-\frac{x^2}{2} + 2x\Big)\Big|_1^{10}$

$$= \frac{1}{2} - 0 + \left(-\frac{9}{8}t3\right) - \left(-\frac{1}{2}t2\right)$$

Practical Part

Assignment 1) Monte-Carlo Integration

- a) 2/2 b) 1/1

Assignment 2) Importance Sampling

- a) 2/2 b) 2/2
- c) 2/2
- d) 0/1 (missing)

9/10

Theoretical Part

Assignment 3) Cumulative Distribution Function

- a) 1/1 b) 2/2

2.5/3 (-0.5 for readability)