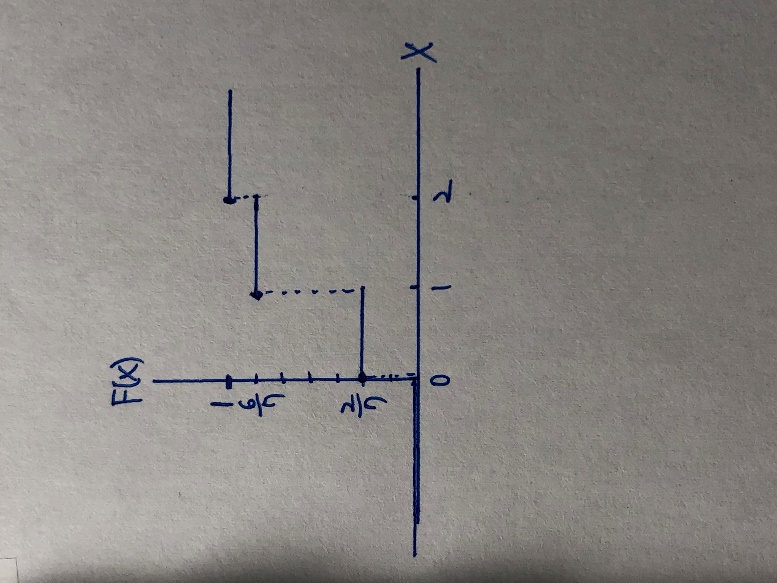
F14076083 魏湧致

3.6

(a) P(X>200) = = = =

(b) P(80<X<120) = = = ≈ 0.10203



3.16

3.24

f(x) = = ,x=0,1,2,3,4

3.36

(a) P(X<0.5) = = 2x- = 0.75

(b) P(X>0.4) = 2x- = 0.36

(c) P(X<0.7 | X≥0.5) = = = =

3.40

(a) g(x) = = = , for 0≤x≤1 ,

and g(x) = 0 elsewhere

(b) h(y) = = = , for 0≤y≤1 ,

and h(y) = 0 elsewhere

(c) P(X<) = = =

3.50

(a)

|  |  |  |
| --- | --- | --- |
| x | 2 | 4 |
| g(x) | 0.1+0.2+0.1 = 0.4 | 0.15+0.3+0.15 = 0.6 |

(b)

|  |  |  |  |
| --- | --- | --- | --- |
| Y | 1 | 3 | 5 |
| h(y) | 0.1+0.15 = 0.25 | 0.2+0.3 = 0.5 | 0.1+0.15 = 0.25 |