```
Prove that
     M+=B7-+
15 an 51-martinople.
What we need to show is:
 J. Mt 15 It-measurable
 2, E[[m+1] < 00
 3. E[m+1, Fs] = ms, s&+
The first is immediate. Since BF and I are II measurede,
Mt also is.
 Now notice that
      E[m4] = E[18]-+1] < E[18] + E[1+1]
             ∠ ∞
 Finally
       E[M+15]= E[B]-+15]
   = E[(B+-Bo+Bo)2/F6]-E[+1F6]
= E[(B+-Bo)2 | Fo] + 2E[(B+-Bo)Bo | Fo] + E[Bo | Fo]-E[HFo]
= +-5+B3-+=B3-5= ms
for 544 as desired.
```

Øksendal 3.5