Ryan Erickson

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22C:019 Homework 5

∧ ∨ Å → ↔ ∃ ∀ ∩ ∪ ≤ ≥

page 451
22. 33/100

24a. 1/593775

30. 35/3838380

page 466
6b. 1/2

page 467
10d. .9230
12. P(E∪F) ≥ P(E)
P(E∪F) = P(E) + P(F) – P(E∩F)
.8+.6 – P(E∩F) ≤ 1
.4 ≤ P(E∩F)

18c. 7 – (48/7)
24. 1/16

page 468
34a. n = independent Bernoulli trials carried out
(1-p)^n
34d. 1-(1-p)^n

page 475
6. .3006

page 492
8a. P(E/E_1) = (99.9% x (1/10000))/(99.9%x1/10000)+(.02%x9999/10000))
= 33.31%

b. .999