Question $\# 15160$ In a management trainee program, 0.80 female and 0.20 male.0. 90 of the females went to college. 0.78 of the males went to college. A management trainee is selected at random. What is the probability that the person selected is a female who did NOT go to college? .
Solution. Denote by $F$ the event that selected at random person is female, and the same thing for $M$. The condition implies that $\mathrm{P}(F)=1-\mathrm{P}(M)=0.8$. Denote by $A$ the event that person selected at random did not go to the college, hence $\mathrm{P}(A \mid F)=0.1$ and $\mathrm{P}(A \mid M)=0.12$ We are interested in the probability $\mathrm{P}(F \cap A)=$ $\mathrm{P}(A \mid F) \mathrm{P}(F)=0.1 \cdot 0.8=0.08$.
Answer 0.08.

