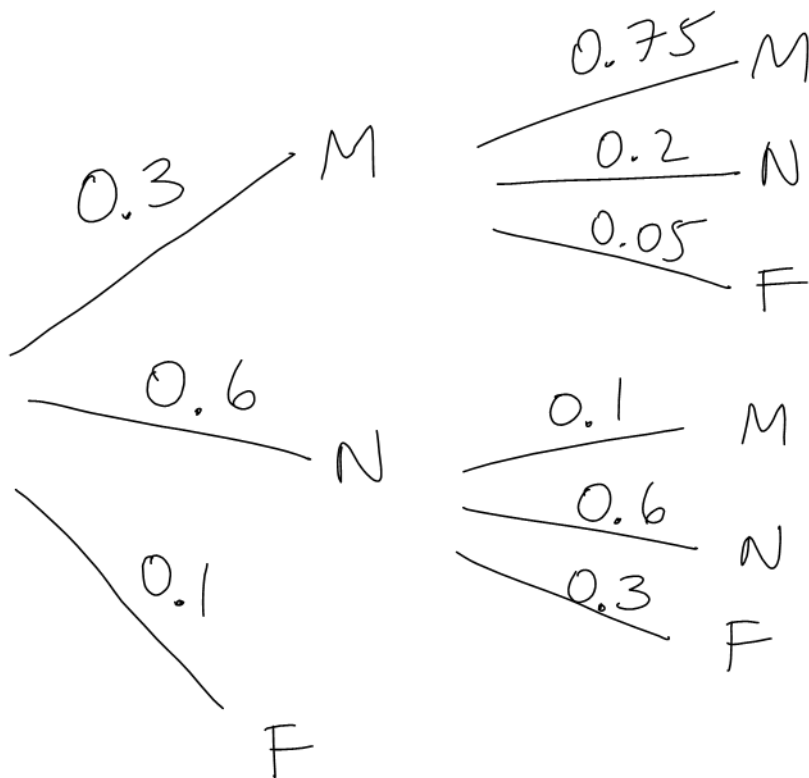


- ③ Let M stand for management.
 " N " nonmanagerial.
 " F " fired.



⑤ $\Pr(M \text{ after step II})$

$$= 0.3(0.75) + 0.6(0.1)$$

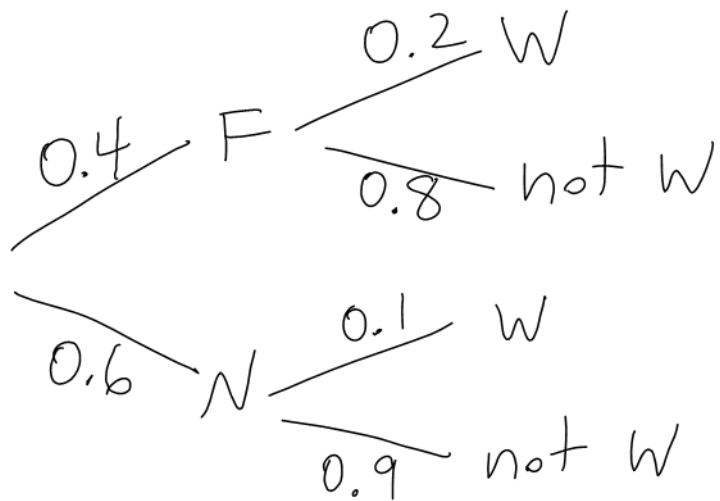
$$= 0.285$$

⑦ $\Pr(F \text{ after Step II})$

$$= 0.3(0.05) + 0.6(0.3) + 0.1$$

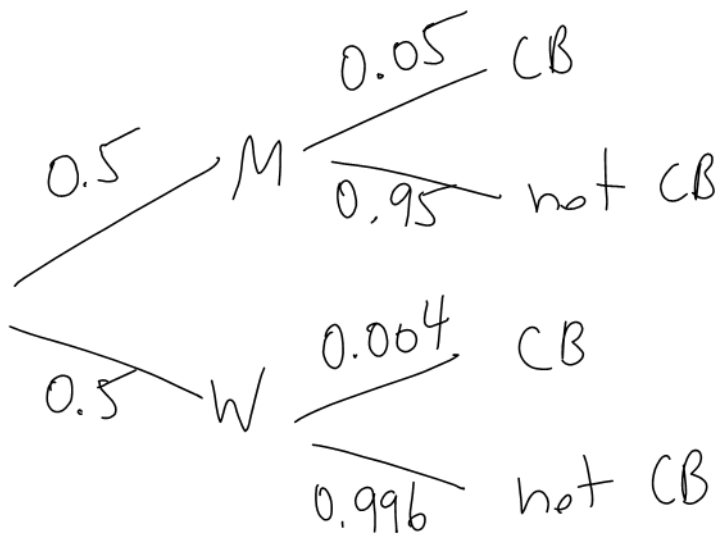
$$= 0.295$$

(13) Let F stand for fiction.
" N " nonfiction.
" W " worn.



$$\begin{aligned} & \Pr(W) \\ &= 0.4(0.2) + 0.6(0.1) \\ &= 0.14 \end{aligned}$$

(15) Let M stand for man,
 " W " woman.
 " CB " color-blind.



$$\Pr(M \text{ given } CB)$$

$$= \Pr(M | CB)$$

$$= \frac{\Pr(M \cap CB)}{\Pr(CB)}$$

$$= \frac{0.5(0.05)}{[0.5(0.05) + 0.5(0.004)]}$$

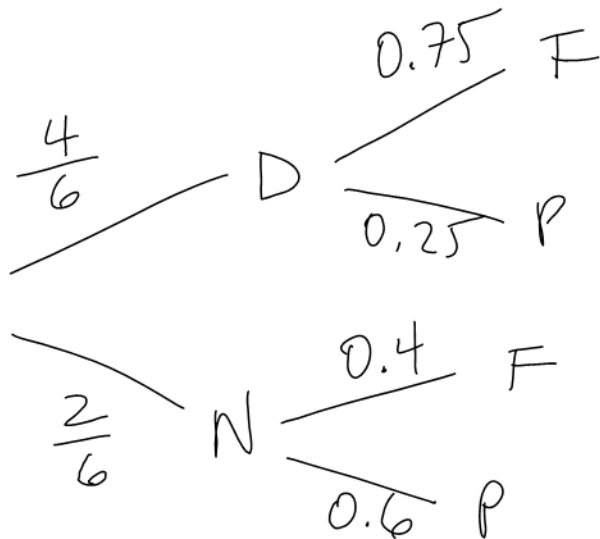
$$\approx 0.93$$

(29)

Let D stand for day.
" N " night.

" F " full-time faculty.

" P " part-time faculty.



$Pr(N \text{ given } P)$

$$= Pr(N|P)$$

$$= \frac{Pr(N \cap P)}{Pr(P)}$$

$$= \frac{\frac{2}{6}(0.6)}{\left[\frac{2}{6}(0.6) + \frac{4}{6}(0.25) \right]}$$

$$\approx 0.55$$