$$V_2$$
 V_3 V_3 V_4 V_4 V_5 V_8 V_8

$$\frac{1}{2}(\frac{3}{5}) = \frac{3}{10} = P(V, \cap R)$$

C)
$$P(U_2/W) = \frac{P(U_2/W)}{P(W)} = \frac{\frac{2}{6}}{\frac{2}{10} + \frac{2}{6}} = \frac{2}{6} \left(\frac{1}{\frac{6}{30}} + \frac{2}{30} \right) = \frac{2}{6} \left(\frac{1}{\frac{16}{30}} \right)$$

$$= \frac{1}{3} \left(\frac{30}{16} \right) = \frac{10}{16} = \frac{5}{8}$$

D)
$$P(U, |R) = \frac{P(U, NR)}{P(R)} = \frac{\frac{3}{70}}{\frac{3}{70} + \frac{1}{6}} = \frac{\frac{3}{70}}{\frac{9}{30} + \frac{5}{30}} = \frac{\frac{3}{70}}{\frac{14}{30}}$$

$$=\frac{3}{10}\left(\frac{30}{14}\right)=\frac{9}{14}$$