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CSE422 Assignment-1

(1)
$$P(x_0 = 1, x_1 = 0, x_2 = 1)$$

= 0.200

$$P(x_0 = 0, x_1 = 1)$$
= 0120+0.120=0.240

$$9P(x_1=0|x_0=1)=\frac{0.100+0.200}{0.100+0.900+0.200+0.080}=\frac{5}{7}$$

(5)
$$P(x_0=1,x_1=0) | x_2=1) = \frac{0.200}{0.180+0.200+0.120+0.080}$$

= $\frac{10}{8.2}$

(a)
$$P(x_0=1|x_1=0,x_2=1) = \frac{0.200}{0.180 + 0.200}$$

$$=\frac{10}{19}$$