5.32 a. Margind for 
$$Y_1$$
 $P_1(6) = .76$ 
 $P_2(1) = .56$ 
 $P_2(1) = .66$ 
 $P_2(2) = .29$ 

b.

 $P(Y_2 | Y_1 = 0) = P(Y_2 = 9_2, Y_1 = 0)$ 
 $P(Y_2 | Y_1 = 0) = P(Y_1 = 0)$ 
 $P(Y_1 = 0) = P(Y_2 = 0)$ 
 $P(Y_2 | Y_1 = 0) = P(Y_2 = 0)$ 
 $P(Y_1 = 0) = P(Y_2 = 0)$ 
 $P(Y_2 | Y_2 = 0) = \frac{.38}{.14} = .84$ 
 $P(Y_2 | Y_2 = 0) = \frac{.24}{.29} = .82$ 

5.32 a.

 $P(Y_1 = 0 | Y_2 = 2) = \frac{.24}{.29} = .82$ 

5.32 a.

 $P(Y_1 = 0 | Y_2 = 2) = \frac{.24}{.29} = .82$ 
 $P(Y_1 = 0 | Y_2 = 2) = \frac{.24}{.29} = .82$ 
 $P(Y_1 = 0 | Y_2 = 2) = \frac{.24}{.29} = .82$ 
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 $P(Y_1 = 0 | Y_2 = 2) = \frac{.24}{.29} = .82$ 

 $= 12 \cdot 9_{1}^{2} (1 - 9_{1})$ 

This is a Beta (3,2)