10)
$$p(y) = \frac{1}{5} p(y|0) p(0)$$

$$= \frac{1}{5} (y \cdot y) \cdot \frac{1}{5} (y$$

C)
$$p(y|y) = \int p(y|\theta) p(y|\theta) d\theta$$

$$= \int (x_{1}^{2}, y_{2}^{2}) d\theta = \int (x_{2}^{2} + y_{1}^{2}) d\theta = \int (x_{2}^{2} + y_{2}^{2}) d\theta = \int (x_{2}^{2} + y_{2}^{2} + y_{2}^{2} + y_{2}^{2}) d\theta = \int (x_{2}^{2} + y_{2}^{2} + y_{2}^{2}) d\theta = \int (x_{2}^{2} + y_{2}^{2} + y_{2}^{2}) d\theta = \int (x_{2}^{2} + y_{2}^{2} + y_{2}^{2} + y_{2}^{2}) d\theta = \int (x_{2}^{2} + y_{2}^{2} + y_{2}^{2}$$