Quiz Problem 8 Due Oct. 29nd, 11:59 pm EST

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Let (X, Y) be jointly uniform over the region

$$A = \{(x, y) \mid 0 < x^2 < y < 4\} \subset \mathbb{R}^2.$$

What is $E[Y \mid X = 1]$? Hint: Note that f(x, y) = c for $(x, y) \in A$. What is c?

