Group	Names
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Group Quiz for Section 6.2

1. Suppose that X, Y have joint density

$$f(x,y) = \begin{cases} \frac{12}{7}(xy + y^2), & 0 \le x, y \le 1; \\ 0, & \text{otherwise.} \end{cases}$$

(You do not need to check that this really does define a density.) Calculate $\mathbb{E}[X^2Y]$.