Group $\qquad$ Names

## Group Quiz for Section 6.2

1. Suppose that $X, Y$ have joint density

$$
f(x, y)= \begin{cases}\frac{12}{7}\left(x y+y^{2}\right), & 0 \leq x, y \leq 1 \\ 0, & \text { otherwise }\end{cases}
$$

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

