1. [10 points] This is question 18 in the book.

Two cards are randomly selected from a standard deck of cards. What is the probability that one of them is an ace and the other is either a ten, jack, queen, or king?
Answers

1.

\[
\begin{align*}
4 \times 16 & \quad \frac{52}{2} \\
\end{align*}
\]