1. (a) All integers are a multiple of 2.
   (b) It's false, since $1 \in \mathbb{Z}$ and 1 is not a multiple of 2.
   (c) There is an integer that is not a multiple of 2.
   (d) $\exists\, x \in \mathbb{Z} : (x \text{ is not a multiple of } 2)$