

Example 7. Determine whether the following sets are all equal. If they are not all equal, specify which ones are equal.

(a) $\{a, b, c, d\}$

(b) $\{a, b, b, c, d\}$

(c) $\{a, b, d\}$

(d) $\{d, a, b, d, a\}$

(e) $\{c, a, b, d\}$

The sets $\{a, b, c, d\}$, $\{a, b, b, c, d\}$, and $\{c, a, b, d\}$ are equal because they all have the same elements even though the element 'b' is repeated.

The sets $\{a, b, d\}$ and $\{d, a, b, d, a\}$ are equal because they all have the same elements even though the element 'd' is repeated.