3136. Valid Word

A word is considered **valid** if:

- It contains a **minimum** of 3 characters.

- It contains only digits (0-9), and English letters (uppercase and lowercase).

- It includes **at least** one **vowel**.

- It includes **at least** one **consonant**.

You are given a string `word`.

Return `true` if `word` is valid, otherwise, return `false`.

Notes:

- `'a'`, `'e'`, `'i'`, `'o'`, `'u'`, and their uppercases are **vowels**.

- A **consonant** is an English letter that is not a vowel.

Example 1:

> **Input:** word = "234Adas"
>
> **Output:** true
>
> **Explanation:**
>
> This word satisfies the conditions.

Example 2:

> **Input:** word = "b3"
>
> **Output:** false
>
> **Explanation:**
>
> The length of this word is fewer than 3, and does not have a vowel.

Example 3:

> **Input:** word = "a3$e"
>
> **Output:** false
>
> **Explanation:**
>
> This word contains a `'$'` character and does not have a consonant.

Constraints:

- `1 <= word.length <= 20`

- `word` consists of English uppercase and lowercase letters, digits, `'@'`, `'#'`, and `'$'`.