

# 1. write a formula which returns "Palindrome" or "Not Palindrome" for a given word in

excel formula:

```
=IF(SUMPRODUCT(--(MID(SUBSTITUTE(B5," ",""),ROW(INDIRECT("1:"&LEN(SUBSTITUTE(B5," ","")))),1)=MID(SUBSTITUTE(B5," ",""),LEN(SUBSTITUTE(B5," ",""))+1-ROW(INDIRECT("1:"&LEN(SUBSTITUTE(B5," ","")))),1)))=LEN(SUBSTITUTE(B5," ","")), "Palindrome", "Not Palindrome")
```

The screenshot shows an Excel spreadsheet titled "Palindrome - Excel". The formula bar displays the formula: `=IF(SUMPRODUCT(--(MID(SUBSTITUTE(B7," ",""),ROW(INDIRECT("1:"&LEN(SUBSTITUTE(B7," ","")))),1)=MID(SUBSTITUTE(B7," ",""),LEN(SUBSTITUTE(B7," ",""))+1-ROW(INDIRECT("1:"&LEN(SUBSTITUTE(B7," ","")))),1)))=LEN(SUBSTITUTE(B7," ","")), "Palindrome", "Not Palindrome")`. The spreadsheet has a table with two columns: "Word or Phrase" and "Palindrome?". The table contains the following data:

Word or Phrase	Palindrome?
mam	Palindrome
man	Not Palindrome
a man a plan a canal panama	Palindrome
Able was I, ere I saw elba	Not Palindrome
Straw warts	Palindrome
A Toyota's a Toyota.	Not Palindrome
Cigar? Toss it in a can. It is so tragic.	Not Palindrome
Dammit, I'm mad!	Not Palindrome
Abba	Palindrome
Kayak	Palindrome
Taco cat	Palindrome
Put it up	Palindrome