Assignment 16

1. Write a function that stutters a word as if someone is struggling to read it. The first two letters are repeated twice with an ellipsis ... and space after each, and then the word is pronounced with a question mark ?.

In [10]:
```
def stutter(a):
    return(2*(a[:2]+"..."))+ a + "?"

stutter("hello, how have you been")
```

Out[10]:
```
'he...he...hello, how have you been?'
```

2.Question 2.Create a function that takes an angle in radians and returns the corresponding angle in degrees rounded to one decimal place.

In [29]:
```
pi = 3.14
def angle(n):
    return (round((n)*(180/pi),1))
```

In [30]:
```
angle(12)
```

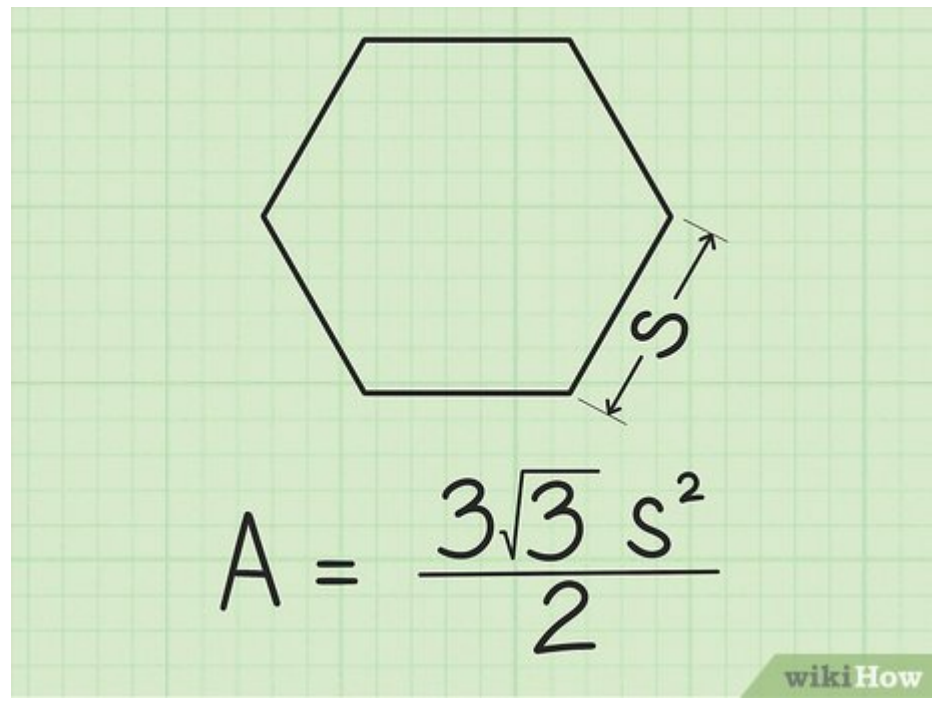
Out[30]:
```
687.9
```

3.In this challenge, establish if a given integer num is a Curzon number. If 1 plus 2 elevated to num is exactly divisible by 1 plus 2 multiplied by num, then num is a Curzon number.

In [38]:
```
def cruzon(n):
    power, product = 0,0

    power = pow(2,n)+1
    product = 2*n+1

    if (power % product) == 0:
        print("Is a Cruzon number")
    else:
        print("Not a Cruzon number")

cruzon(5)
```

```
Is a Cruzon number
```

4. Given the side length x find the area of a hexagon



In [51]:
```
import math
s = int(input("Enter the value for side here:"))

def hexagon(s):
    return((3*math.sqrt(3)*(s*s))/2)

print(hexagon(s))
```

```
Enter the value for side here:3
23.382685902179844
```

5.Create a function that returns a base-2 (binary) representation of a base-10 (decimal) string number. To convert is simple: ((2) means base-2 and (10) means base-10) 010101001(2) = 1 + 8 + 32 + 128.

--Unable to do this.

In [ ]:
```

```