Algorithm Assignments

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1) Algorithm and flowchart that finds all numbers between 1 to 100 divisible by 3

1. begin
2. sum=0
3. loop I=1, 100
4. if I%3==0
5. Print I
6. else
7. repeat loop
8. end

2) sum of the numbers between 1 to 100 but the program should exit the loop if the current sum is greater than 1000. Print the latest loop indices.

1. begin
2. sum=0
3. loop I=1, 100
4. if sum<=1000

    sum=sum+I

repeat loop

5. else

end loop

print I

print I

break

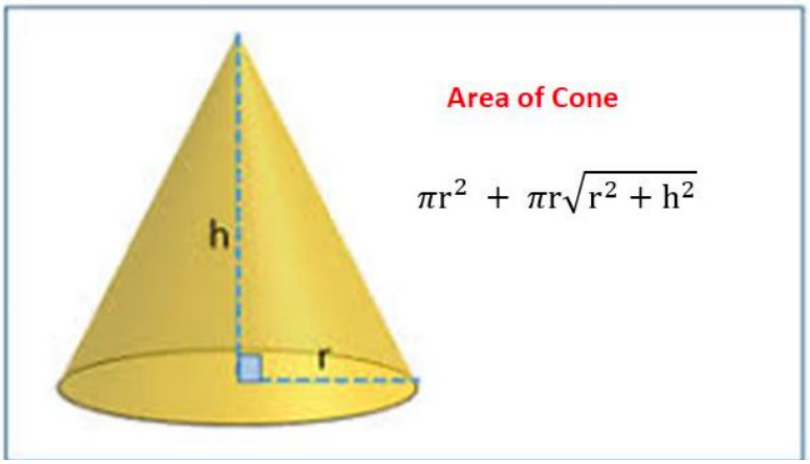
6. repeat loop

7. end

3)

Assignment

- Write an algorithm and draw a flowchart that calculates the area of the cone.

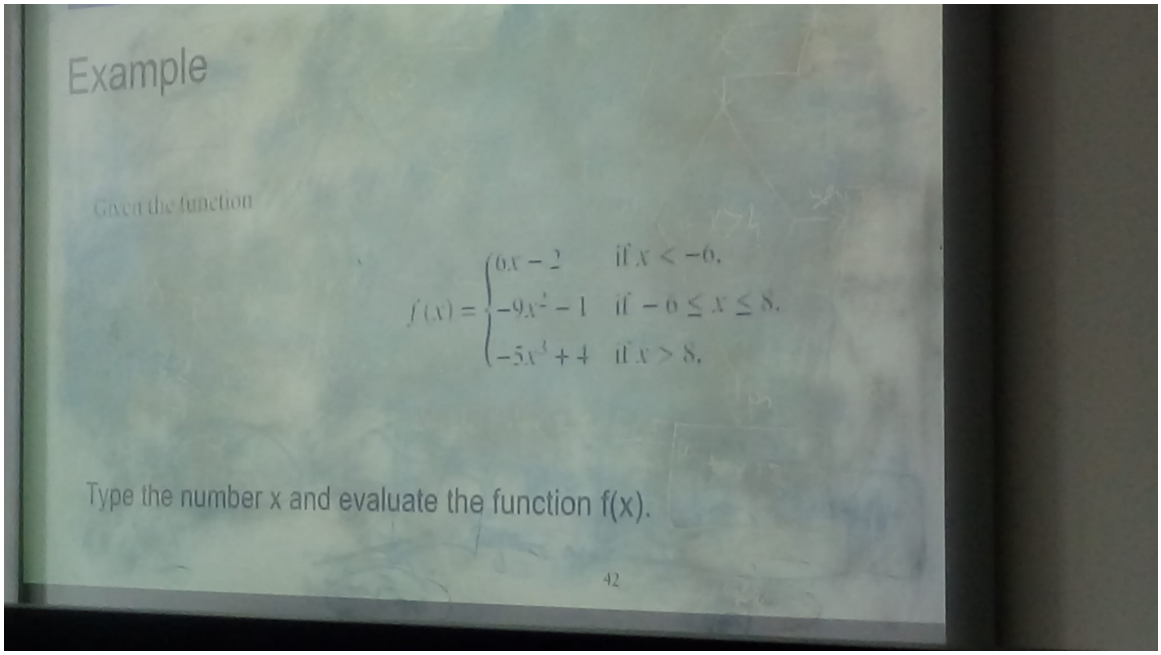


1. begin
2. input r, h
3. pi=3.14
4. $area = pi * r^2 + pi * r. Mo. Sqrt(r^2 + h^2)$

   + pi *r * (r^2 + h^2)^0.5

   print area

   end



1. begin
2. input x
3. if x < -6
    a. print 6x-2
4. else
    a. ~~if x<=8~~
        i. print (-9*x^2)-1
    b. else
        i. print (-5*x^3)+4
5. end

5)print the sum of squares of odd numbers from 1 to n

1. begin
2. sum=0
3. loop I=1, n
4. If I%2==0
    a. I=I+1
5. else
    a. sum=sum+I^2
    b. repeat loop
6. end