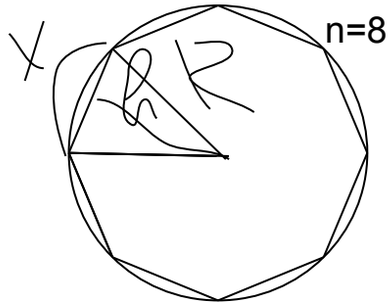
Площадь круга



S0=xh/2

S_m=n*S0=
=n*xh/2=
=(nx)*h/2=
=P_m * h/2 ->
->2PR * R/2 =
PR^2

P_m -> C=2PR
h - > R

0 / число = 0

число / бесконечность = 0

число / 0 = бесконечность

0 / 0 = неопределено

oo / oo = неопределено

0^0= неопределено

Семь смертных грехов

1. $\frac{0}{0}$
2. $\frac{\infty}{\infty}$
3. $0 \cdot \infty$
4. $\infty - \infty$
5. 1^{∞}
6. ∞^{0}
7. 0^{0}

lim[x->oo]((5-5x)/(2x^2 - 9x) = ((5-5x)/x^2 /(2x^2 - 9x)/x^2 = (5/x^2 - 5/x) / (2 - 9/x) = 0 - 0 / 2 - 0 = 0/2=0

lim[x->oo]((10x^2 + 4x - 3)/(5x^2 + 2x +1) =(10 + 4/x- 3/x^2)/(5 + 2/x +1/x^2) = 10 / 5=2

lim[x->oo]((10x^3+ 4x - 3)/(5x^2 + 2x +1) =((10+ 4/x^2 - 3/x^3)/(5/x + 2/x^2 +1/x^3)= 10 / 0 = +oo

lim[x->3]((x^2-6x+9)/(x-3) =(x-3)^2/(x-3)=(x-3) /1 =0

lim[x->3]((x-3) / (x^2-5x+6) =(x-3) / (x-3)(x-2)=1 / (x-2) =1 / 1 = 1

lim[x->oo]((x^2+4) * 1/(x-5)) = oo * 0 =](1+4/x^2)/(1/x-5/x^2)) =1/0 = oo

lim[x->oo]((x^2+4) * 1/(x^3-5)) = oo * 0 =](1/x+4/x^3)/(1-5/x^3)) =0 / 1 = 0

x^2 -x^2