Vouteq1 := Ao^2\*wp^2\*(Ao^2\*R2\*R3\*R6\*wp^2 - Ao^2\*R2\*R4\*R7\*wp^2 + Ao\*R1\*R4\*R5\*s\*wp + Ao\*R1\*R4\*R5\*wp^2 + Ao\*R1\*R4\*R6\*s\*wp + Ao\*R1\*R4\*R6\*wp^2 + Ao\*R1\*R4\*R7\*s\*wp + Ao\*R1\*R4\*R7\*wp^2 + Ao\*R1\*R5\*R6\*s\*wp + Ao\*R1\*R5\*R6\*wp^2 - Ao\*R2\*R3\*R6\*s\*wp - Ao\*R2\*R3\*R6\*wp^2 + Ao\*R2\*R4\*R7\*s\*wp + Ao\*R2\*R4\*R7\*wp^2 + R1\*R3\*R5\*s^2 + 2\*R1\*R3\*R5\*s\*wp + R1\*R3\*R5\*wp^2 + R1\*R3\*R6\*s^2 + 2\*R1\*R3\*R6\*s\*wp + R1\*R3\*R6\*wp^2 + R1\*R3\*R7\*s^2 + 2\*R1\*R3\*R7\*s\*wp + R1\*R3\*R7\*wp^2 + R1\*R4\*R5\*s^2 + 2\*R1\*R4\*R5\*s\*wp + R1\*R4\*R5\*wp^2 + R1\*R4\*R6\*s^2 + 2\*R1\*R4\*R6\*s\*wp + R1\*R4\*R6\*wp^2 + R1\*R4\*R7\*s^2 + 2\*R1\*R4\*R7\*s\*wp + R1\*R4\*R7\*wp^2 + R1\*R5\*R6\*s^2 + 2\*R1\*R5\*R6\*s\*wp + R1\*R5\*R6\*wp^2 + R1\*R5\*R7\*s^2 + 2\*R1\*R5\*R7\*s\*wp + R1\*R5\*R7\*wp^2)/((Ao\*R1\*wp + R1\*s + R1\*wp + R2\*s + R2\*wp)\*(Ao^3\*R4\*R7\*wp^3 + Ao^2\*R3\*R7\*s\*wp^2 + Ao^2\*R3\*R7\*wp^3 + Ao^2\*R4\*R5\*s\*wp^2 + Ao^2\*R4\*R5\*wp^3 + Ao^2\*R4\*R6\*s\*wp^2 + Ao^2\*R4\*R6\*wp^3 + Ao^2\*R4\*R7\*s\*wp^2 + Ao^2\*R4\*R7\*wp^3 + Ao^2\*R5\*R6\*s\*wp^2 + Ao^2\*R5\*R6\*wp^3 + Ao\*R3\*R5\*s^2\*wp + 2\*Ao\*R3\*R5\*s\*wp^2 + Ao\*R3\*R5\*wp^3 + Ao\*R3\*R6\*s^2\*wp + 2\*Ao\*R3\*R6\*s\*wp^2 + Ao\*R3\*R6\*wp^3 + 2\*Ao\*R4\*R5\*s^2\*wp + 4\*Ao\*R4\*R5\*s\*wp^2 + 2\*Ao\*R4\*R5\*wp^3 + 2\*Ao\*R4\*R6\*s^2\*wp + 4\*Ao\*R4\*R6\*s\*wp^2 + 2\*Ao\*R4\*R6\*wp^3 + Ao\*R4\*R7\*s^2\*wp + 2\*Ao\*R4\*R7\*s\*wp^2 + Ao\*R4\*R7\*wp^3 + 2\*Ao\*R5\*R6\*s^2\*wp + 4\*Ao\*R5\*R6\*s\*wp^2 + 2\*Ao\*R5\*R6\*wp^3 + Ao\*R5\*R7\*s^2\*wp + 2\*Ao\*R5\*R7\*s\*wp^2 + Ao\*R5\*R7\*wp^3 + R3\*R5\*s^3 + 3\*R3\*R5\*s^2\*wp + 3\*R3\*R5\*s\*wp^2 + R3\*R5\*wp^3 + R3\*R6\*s^3 + 3\*R3\*R6\*s^2\*wp + 3\*R3\*R6\*s\*wp^2 + R3\*R6\*wp^3 + R3\*R7\*s^3 + 3\*R3\*R7\*s^2\*wp + 3\*R3\*R7\*s\*wp^2 + R3\*R7\*wp^3 + R4\*R5\*s^3 + 3\*R4\*R5\*s^2\*wp + 3\*R4\*R5\*s\*wp^2 + R4\*R5\*wp^3 + R4\*R6\*s^3 + 3\*R4\*R6\*s^2\*wp + 3\*R4\*R6\*s\*wp^2 + R4\*R6\*wp^3 + R4\*R7\*s^3 + 3\*R4\*R7\*s^2\*wp + 3\*R4\*R7\*s\*wp^2 + R4\*R7\*wp^3 + R5\*R6\*s^3 + 3\*R5\*R6\*s^2\*wp + 3\*R5\*R6\*s\*wp^2 + R5\*R6\*wp^3 + R5\*R7\*s^3 + 3\*R5\*R7\*s^2\*wp + 3\*R5\*R7\*s\*wp^2 + R5\*R7\*wp^3))

VoutCollectSub := subs({Ao = 200000, R1 = 1000, R2 = 20000, R3 = 6000, R4 = 1000, R5 = 50021, R6 = 1000, R7 = 6000, R8 = 1000, R9 = 20000, wp = 15}, {Vouteq1})

VoutCollect := collect(VoutCollectSub, s)

//////////////////////

R5 = 50021.24

Aol 200k

Num= 6743646000000000000000000, 2890336309380000000000000000000, 43353527320350000000000000000000

Denom= 15735174000000, 53551994110440000000, 34366371818492484900000000, 7265164955007171174849000000000, 486108969742072185590343183750000000

Aol100k

Num= 6743646000000000000000000, 2890538618760000000000000000000,86710089281400000000000000000000

Denom= 15735174000000, 53552938220880000000, 34368781679469939600000000, 7266195982309534398792000000000,486217954949011691095490940000000000

///////////////////

R5=30504.23

Aol 200k

Num= 4284504000000000000000000, 1836344535120000000000000000000,27544204013400000000000000000000

Denom= 9997176000000, 33058799830560000000, 24177575632496187600000000, 6210941304954419961876000000000, 486093158679731371931107035000000000

Aol100k

Num= 4284504000000000000000000, 1836473070240000000000000000000,55090336053600000000000000000000

Denom= 9997176000000, 33059399661120000000, 24179063291984750400000000,6211666654538219695008000000000, 486186328239371779497712560000000000

///////////////////////////

R5=10021.06

Aol 200k

Num=1703646000000000000000000, 730185109380000000000000000000, 10952393320350000000000000000000

Denom=3975174000000, 11551288510440000000, 13484481802616484900000000, 5104538526657012414849000000000, 486076565043930434994993183750000000

Aol100k=

Num=1703646000000000000000000, 730236218760000000000000000000, 21905553281400000000000000000000

Denom=3975174000000, 11551527020880000000, 13485001615965939600000000, 5104943068908264318792000000000, 486153136155877681569890940000000000

///////////////////////////

R5=4984.45

///////con Aol200k wp15////////

Num= 1068984000000000000000000, 458168069520000000000000000000,6872280521400000000000000000000

Denom= 2494296000000, 6262349657760000000, 10854929802367299600000000, 4832461643667018672996000000000, 486072484482316935051273735000000000

//////////Con Aol100k wp30///////////////

Num= 1068984000000000000000000, 458200139040000000000000000000, 13745042085600000000000000000000

Denom= 2494296000000, 6262499315520000000, 10855211611469198400000000, 4832787295788209383968000000000,486144973849352281420379760000000000

//////////////////////////////////////////////////////////

R5=1004.26

Aol 200k

Num= 567504000000000000000000, 243233025120000000000000000000, 3648367688400000000000000000000

Denom= 1324176000000, 2083279450560000000,8777181745787637600000000, 4617479314046177876376000000000, 486069260214851830867036410000000000

Aol100k

Num= 567504000000000000000000, 243250050240000000000000000000, 7296990753600000000000000000000

Denom= 1324176000000, 2083358901120000000, 8777275495150550400000000, 4617742630904783011008000000000,486138524379435447472582560000000000

///////////////////////

R5=99.57

Aol 200k

Num= 4.535458200e23, 1.943903864e29, 2.915753747e30

Denom= 1.058273580e12, 1.133611996e18, 8.305026550e24, 4.568625928e30,4.860685272e35

Aol100k

Num= 4.535458200e23, 1.944039928e29, 5.831711591e30

Denom= 1.058273580e12, 1.133675493e18, 8.305077565e24, 4.568875082e30, 4.861370587e35