

03 +nqkWuk ij Nk= dY; k.k vkkfkd l gk; rk A

foRr I fefr ds fu.kj ku| kj fo' ofo | ky; vi us vk; ctV en Nk= dY; k.k fuf/k I s fo' ofo | ky; ea ukefdi dr I eLr vfHk; k=dh;] Qke1 h] vklfdVOpj , oa, e0l h0,0 egkfo | ky; ka ea v/; ; ujr~ Lukrd Lrj ds Nk=k gsrq vkldfLed nqkWuk gksus ij eR; j; k LFkkbZ vi xrk gksus ij fuEukul kj Hkxrku fd; k tkos %&

nqkWuk I s Nk= dh eR; qgksus ij jkf'k & : 0 2 00 yk[kA

LFkkbZ vi xrk & nkukfyEcl , oaksuks vklks & : 0 2 00 yk[kA

LFkkbZ vi xrk & , d fyEcl , oa, d vklk & : 0 1 00 yk[kA

mi jkDr fu.kj vu| kj fo' ofo | ky; ds vf/k" Bkrk Nk= dY; k.k foHkkx ds }jk 14 Nk=k dks nqkWuk chek dh jkf'k dk Hkxrku fd; k tk pdk gS

fnuk 17@09@2009 rd Nk= nqkWuk chek; wkbM bu'kjH d1uh ds }jk djk; k tkrk FkkA ijUrq orEku es nqkWuk ij Nk= dY; k.k vkkfkd l gk; rk fo' ofo | ky; Nk= dY; k.k fuf/k I s Lo; adjrk gA ftI ds fy, Nk=k I s dkbZ vfrfjDr 'kj d ugh fy; k tkrk gA

$\frac{1}{4}n^2Wuk$ ij $Nk = dY; k.k vKFkd$ $I gk; rk gsvvknou$ $i = \frac{1}{2}$

161 QkeZ dks nus dk vFk ftEenkjh Lohdkjuk ughA di ; k b1 QkeZ dk gj rjg I sijk djds eR; q iek.k i=] iktVekVb I fVIQdV vkn ifyI ipukes ds I kfk tek djk nhft, 1/2

4 +n@k\uk e@er] 0; fDr dk foj.k %

½ + uke ijk %+++++++/; ;ujr l k+++jk y u0 ++++++ +++++++

$\frac{1}{4} \cdot \frac{1}{2} + \sqrt{4\pi} \approx 0.016$ at $x = 0$

1%1% + nq%uk ds1 e; vk;q%++++++ ++++++ ++++++ ++++++ ++++++

5 +nqk\uk dc g\p\%& rkjh[k ++++++|e; +++++++|+++++|+++++

+++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++

13 +D; k vkon dks i wkw fo'okl gsfld er; q l h/kh n?w/uk l sgbz gsv%++++++

?kk&kk. kk i =

e&ge Lohdkj djrs g&vlg ?kk&kr djrs g&fd mijkDr izukads l Hkh mRrj l awz vlg gj nf"V ls lg gh gA

Lfkku %

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1 +gLrk{kj ++++++ ++++++ ++++++

2 +gLrk{kj ++++++ ++++++ ++++++

uke ++++++ ++++++ ++++++

uke ++++++ ++++++ ++++++

irk ++++++ ++++++ ++++++

irk ++++++ ++++++ ++++++

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+++++ ++++++ ++++++ ++++++

vkonu i = 2 i fr; kae nLrkost l fgr i Lrj djA

vkonu i = ds l eLr nLrkost l {ke vf/kdkjh }kj k l R; kfir vko'; d g&A

vko'; d nLrkost %

1 +, Q vkbz vkj A

2 +ikV ekVb fj iW A

3 +ckuhQkbM LVWV l fVIQdV dkWyst }kj k A

4 +nkonkj dh c&d ikl &c&d ft l e&QkVls yxk gkuk vfuok; Zg\$, oaQkVls ifjp; &i = dh Nk; k i fr A

5 +eR; q i ek. k i = A

6 +erd dk dkWyst esmifLFkr fj dkm ykj fyLVIA

7. nqWuk xLr Nk= ds ekrk@firkj osj vfhkkod dk 'ki Fk i =