

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

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- CALCULUS:**
A New Horizon from Ancient Roots
- EXERCISE SET FOR INTRODUCTION**
- (a) $x = 0.12121212 \dots, 1000x = 121.2121212 \dots \Rightarrow 999x = 121.090909 \dots \Rightarrow x = \frac{121}{999} = \frac{11}{99} = \frac{1}{9}$

(b) $x = 12.7777 \dots, 10x = 127.7777 \dots \Rightarrow 9x = 115 \Rightarrow x = \frac{115}{9}$

(c) $x = 20.02140141 \dots, 1000x = 20021.4141 \dots, 999x = 20001.4$

(d) $0.4256860 \dots = 0.4256 + \frac{86}{10000} = \frac{4256}{10000} + \frac{86}{10000} = \frac{4342}{10000} = \frac{10855}{25000}$
 - (a) x is irrational, and thus has a nonterminating decimal expansion, whereas $\frac{22}{7} = 3.142857 \dots$

(b) $\frac{22}{7} > \pi$
 - (a) $\frac{22}{7} = \frac{333}{77} = \frac{44}{11} = \frac{44}{11 \cdot 7} = \frac{4 \cdot 11}{11 \cdot 7} = \frac{4}{7}$ (b) $\frac{44}{21} = \frac{4 \cdot 11}{3 \cdot 7} = \frac{4}{3} \cdot \frac{11}{7}$

(c) $\frac{333}{106} = \frac{3 \cdot 111}{2 \cdot 53} = \frac{3 \cdot 111}{2 \cdot 53} = \frac{111}{2 \cdot 17.666} = \frac{111}{35.332} = \frac{111}{35.332}$ (d) $\frac{44}{21} = \frac{4 \cdot 11}{3 \cdot 7} = \frac{4}{3} \cdot \frac{11}{7}$
 - (a) If r is the radius, then $D = 2\pi r = 2\pi \left(\frac{10}{\sqrt{3}}\right) = \frac{20\pi}{\sqrt{3}} \approx \frac{36.2766}{1.732} = 20.94$. The area of a circle of radius r is $\pi r^2 = 25.94$ was the approximation used for π .

(b) $256.93 \approx 3.14159 \cdot 227 = 714.268$, and $\pi \approx 3.14159$ is worse than 22/7.
 - The first series, taken to ten terms, adds to 3.1415, the second, so printed, adds to 3.1416.
 - (a) $\frac{1}{2} = 0.111111 \dots = \frac{1}{10} + \frac{1}{100} + \frac{1}{1000} + \frac{1}{10000} + \frac{1}{100000} + \dots$

(b) $\frac{3}{2} = 0.142857 \dots = \frac{1}{10} + \frac{4}{100} + \frac{2}{1000} + \frac{8}{10000} + \frac{5}{100000} + \dots$

(c) $\frac{11}{14} = 0.785714 \dots = \frac{7}{10} + \frac{8}{100} + \frac{5}{1000} + \frac{7}{10000} + \dots$

(d) $\frac{11}{14} = 0.785714 \dots = \frac{7}{10} + \frac{8}{100} + \frac{5}{1000} + \frac{7}{10000} + \dots$
 - (a) $\frac{7}{11} = 0.636363 \dots = \frac{6}{10} + \frac{3}{100} + \frac{6}{1000} + \frac{3}{10000} + \dots$

(b) $\frac{8}{11} = 0.727272 \dots = \frac{7}{10} + \frac{2}{100} + \frac{7}{1000} + \frac{2}{10000} + \dots$

(c) $\frac{13}{22} = 0.590909 \dots = \frac{5}{10} + \frac{9}{100} + \frac{0}{1000} + \frac{9}{10000} + \dots$

(d) $\frac{5}{12} = 0.416666 \dots = \frac{4}{10} + \frac{1}{100} + \frac{6}{1000} + \frac{6}{10000} + \dots$
 - (a) 1, 2, 178, 2,6549, 2,6549 (b) 1, 2, 25, 3, 4, 6, 7, 22, 7,6726, 7,0711
 - (a) Let $x_1 = \frac{1}{n}, x_2 = \frac{1}{n}, x_3 = \frac{1}{n}, x_4 = \frac{1}{n}, x_5 = \frac{1}{n}, x_6 = \frac{1}{n}$, etc. Then $x_1 > x_2 > x_3 > x_4 > x_5 > x_6 > x_7 > x_8 > x_9 > x_{10} > x_{11} > x_{12} > x_{13} > x_{14} > x_{15} > x_{16} > x_{17} > x_{18} > x_{19} > x_{20} > x_{21} > x_{22} > x_{23} > x_{24} > x_{25} > x_{26} > x_{27} > x_{28} > x_{29} > x_{30} > x_{31} > x_{32} > x_{33} > x_{34} > x_{35} > x_{36} > x_{37} > x_{38} > x_{39} > x_{40} > x_{41} > x_{42} > x_{43} > x_{44} > x_{45} > x_{46} > x_{47} > x_{48} > x_{49} > x_{50} > x_{51} > x_{52} > x_{53} > x_{54} > x_{55} > x_{56} > x_{57} > x_{58} > x_{59} > x_{60} > x_{61} > x_{62} > x_{63} > x_{64} > x_{65} > x_{66} > x_{67} > x_{68} > x_{69} > x_{70} > x_{71} > x_{72} > x_{73} > x_{74} > x_{75} > x_{76} > x_{77} > x_{78} > x_{79} > x_{80} > x_{81} > x_{82} > x_{83} > x_{84} > x_{85} > x_{86} > x_{87} > x_{88} > x_{89} > x_{90} > x_{91} > x_{92} > x_{93} > x_{94} > x_{95} > x_{96} > x_{97} > x_{98} > x_{99} > x_{100} > x_{101} > x_{102} > x_{103} > x_{104} > x_{105} > x_{106} > x_{107} > x_{108} > x_{109} > x_{110} > x_{111} > x_{112} > x_{113} > x_{114} > x_{115} > x_{116} > x_{117} > x_{118} > x_{119} > x_{120} > x_{121} > x_{122} > x_{123} > x_{124} > x_{125} > x_{126} > x_{127} > x_{128} > x_{129} > x_{130} > x_{131} > x_{132} > x_{133} > x_{134} > x_{135} > x_{136} > x_{137} > x_{138} > x_{139} > x_{140} > x_{141} > x_{142} > x_{143} > x_{144} > x_{145} > x_{146} > x_{147} > x_{148} > x_{149} > x_{150} > x_{151} > x_{152} > x_{153} > x_{154} > x_{155} > x_{156} > x_{157} > x_{158} > x_{159} > x_{160} > x_{161} > x_{162} > x_{163} > x_{164} > x_{165} > x_{166} > x_{167} > x_{168} > x_{169} > x_{170} > x_{171} > x_{172} > x_{173} > x_{174} > x_{175} > x_{176} > x_{177} > x_{178} > x_{179} > x_{180} > x_{181} > x_{182} > x_{183} > x_{184} > x_{185} > x_{186} > x_{187} > x_{188} > x_{189} > x_{190} > x_{191} > x_{192} > x_{193} > x_{194} > x_{195} > x_{196} > x_{197} > x_{198} > x_{199} > x_{200} > x_{201} > x_{202} > x_{203} > x_{204} > x_{205} > x_{206} > x_{207} > x_{208} > x_{209} > x_{210} > x_{211} > x_{212} > x_{213} > x_{214} > x_{215} > x_{216} > x_{217} > x_{218} > x_{219} > x_{220} > x_{221} > x_{222} > x_{223} > x_{224} > x_{225} > x_{226} > x_{227} > x_{228} > x_{229} > x_{230} > x_{231} > x_{232} > x_{233} > x_{234} > x_{235} > x_{236} > x_{237} > x_{238} > x_{239} > x_{240} > x_{241} > x_{242} > x_{243} > x_{244} > x_{245} > x_{246} > x_{247} > x_{248} > x_{249} > x_{250} > x_{251} > x_{252} > x_{253} > x_{254} > x_{255} > x_{256} > x_{257} > x_{258} > x_{259} > x_{260} > x_{261} > x_{262} > x_{263} > x_{264} > x_{265} > x_{266} > x_{267} > x_{268} > x_{269} > x_{270} > x_{271} > x_{272} > x_{273} > x_{274} > x_{275} > x_{276} > x_{277} > x_{278} > x_{279} > x_{280} > x_{281} > x_{282} > x_{283} > x_{284} > x_{285} > x_{286} > x_{287} > x_{288} > x_{289} > x_{290} > x_{291} > x_{292} > x_{293} > x_{294} > x_{295} > x_{296} > x_{297} > x_{298} > x_{299} 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> x_{600} > x_{601} > x_{602} > x_{603} > x_{604} > x_{605} > x_{606} > x_{607} > x_{608} > x_{609} > x_{610} > x_{611} > x_{612} > x_{613} > x_{614} > x_{615} > x_{616} > x_{617} > x_{618} > x_{619} > x_{620} > x_{621} > x_{622} > x_{623} > x_{624} > x_{625} > x_{626} > x_{627} > x_{628} > x_{629} > x_{630} > x_{631} > x_{632} > x_{633} > x_{634} > x_{635} > x_{636} > x_{637} > x_{638} > x_{639} > x_{640} > x_{641} > x_{642} > x_{643} > x_{644} > x_{645} > x_{646} > x_{647} > x_{648} > x_{649} > x_{650} > x_{651} > x_{652} > x_{653} > x_{654} > x_{655} > x_{656} > x_{657} > x_{658} > x_{659} > x_{660} > x_{661} > x_{662} > x_{663} > x_{664} > x_{665} > x_{666} > x_{667} > x_{668} > x_{669} > x_{670} > x_{671} > x_{672} > x_{673} > x_{674} > x_{675} > x_{676} > x_{677} > x_{678} > x_{679} > x_{680} > x_{681} > x_{682} > x_{683} > x_{684} > x_{685} > x_{686} > x_{687} > x_{688} > x_{689} > x_{690} > x_{691} > x_{692} > x_{693} > x_{694} > x_{695} > x_{696} > x_{697} > x_{698} > x_{699} > x_{700} > x_{701} > x_{702} > x_{703} > x_{704} > x_{705} > x_{706} > x_{707} > x_{708} > x_{709} > x_{710} > x_{711} > x_{712} > x_{713} > x_{714} > x_{715} > x_{716} > x_{717} > x_{718} > x_{719} > x_{720} > x_{721} > x_{722} > x_{723} > x_{724} > x_{725} > x_{726} > x_{727} > x_{728} > x_{729} > x_{730} > x_{731} > x_{732} > x_{733} > x_{734} > x_{735} > x_{736} > x_{737} > x_{738} > x_{739} > x_{740} > x_{741} > x_{742} > x_{743} > x_{744} > x_{745} > x_{746} > x_{747} > x_{748} > x_{749} > x_{750} > x_{751} > x_{752} > x_{753} > x_{754} > x_{755} > x_{756} > x_{757} > x_{758} > x_{759} > x_{760} > x_{761} > x_{762} > x_{763} > x_{764} > x_{765} > x_{766} > x_{767} > x_{768} > x_{769} > x_{770} > x_{771} > x_{772} > x_{773} > x_{774} > x_{775} > x_{776} > x_{777} > x_{778} > x_{779} > x_{780} > x_{781} > x_{782} > x_{783} > x_{784} > x_{785} > x_{786} > x_{787} > x_{788} > x_{789} > x_{790} > x_{791} > x_{792} > x_{793} > x_{794} > x_{795} > x_{796} > x_{797} > x_{798} > x_{799} > x_{800} > x_{801} > x_{802} > x_{803} > x_{804} > x_{805} > x_{806} > x_{807} > x_{808} > x_{809} > x_{810} > x_{811} > x_{812} > x_{813} > x_{814} > x_{815} > x_{816} > x_{817} > x_{818} > x_{819} > x_{820} > x_{821} > x_{822} > x_{823} > x_{824} > x_{825} > x_{826} > x_{827} > x_{828} > x_{829} > x_{830} > x_{831} > x_{832} > x_{833} > x_{834} > x_{835} > x_{836} > x_{837} > x_{838} > x_{839} > x_{840} > x_{841} > x_{842} > x_{843} > x_{844} > x_{845} > x_{846} > x_{847} > x_{848} > x_{849} > x_{850} > x_{851} > x_{852} > x_{853} > x_{854} > x_{855} > x_{856} > x_{857} > x_{858} > x_{859} > x_{860} > x_{861} > x_{862} > x_{863} > x_{864} > x_{865} > x_{866} > x_{867} > x_{868} > x_{869} > x_{870} > x_{871} > x_{872} > x_{873} > x_{874} > x_{875} > x_{876} > x_{877} > x_{878} > x_{879} > x_{880} > x_{881} > x_{882} > x_{883} > x_{884} > x_{885} > x_{886} > x_{887} > x_{888} > x_{889} > x_{890} > x_{891} > x_{892} > x_{893} > x_{894} > x_{895} > x_{896} > x_{897} > x_{898} > x_{899} > x_{900} > x_{901} > x_{902} > x_{903} > x_{904} > x_{905} > x_{906} > x_{907} > x_{908} > x_{909} > x_{910} > x_{911} > x_{912} > x_{913} > x_{914} > x_{915} > x_{916} > x_{917} > x_{918} > x_{919} > x_{920} > x_{921} > x_{922} > x_{923} > x_{924} > x_{925} > x_{926} > x_{927} > x_{928} > x_{929} > x_{930} > x_{931} > x_{932} > x_{933} > x_{934} > x_{935} > x_{936} > x_{937} > x_{938} > x_{939} > x_{940} > x_{941} > x_{942} > x_{943} > x_{944} > x_{945} > x_{946} > x_{947} > x_{948} > x_{949} > x_{950} > x_{951} > x_{952} > x_{953} > x_{954} > x_{955} > x_{956} > x_{957} > x_{958} > x_{959} > x_{960} > x_{961} > x_{962} > x_{963} > x_{964} > x_{965} > x_{966} > x_{967} > x_{968} > x_{969} > x_{970} > x_{971} > x_{972} > x_{973} > x_{974} > x_{975} > x_{976} > x_{977} > x_{978} > x_{979} > x_{980} > x_{981} > x_{982} > x_{983} > x_{984} > x_{985} > x_{986} > x_{987} > x_{988} > x_{989} > x_{990} > x_{991} > x_{992} > x_{993} > x_{994} > x_{995} > x_{996} > x_{997} > x_{998} > x_{999} > x_{1000}$

(b) $x = 0.9999 \dots = 1 - 0.0001 \dots = 1 - \frac{1}{10000} = \frac{9999}{10000}$

(c) $(1.9999 \dots)^2 = 3.9998 \dots = 4 - 0.0002 \dots = 4 - \frac{2}{10000} = \frac{39998}{10000} = \frac{9999}{2500}$

(d) $10 = 9 + x$, so $x = 10 - 9 = 1$. They are equal.