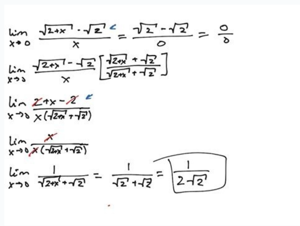
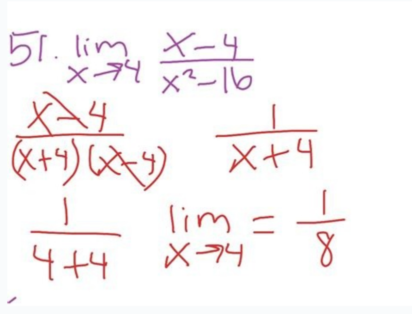
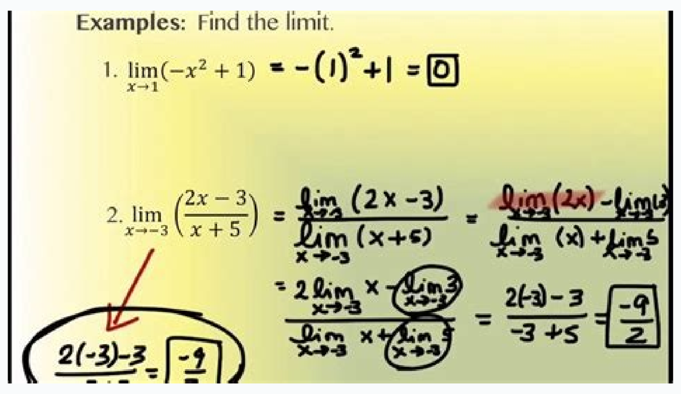
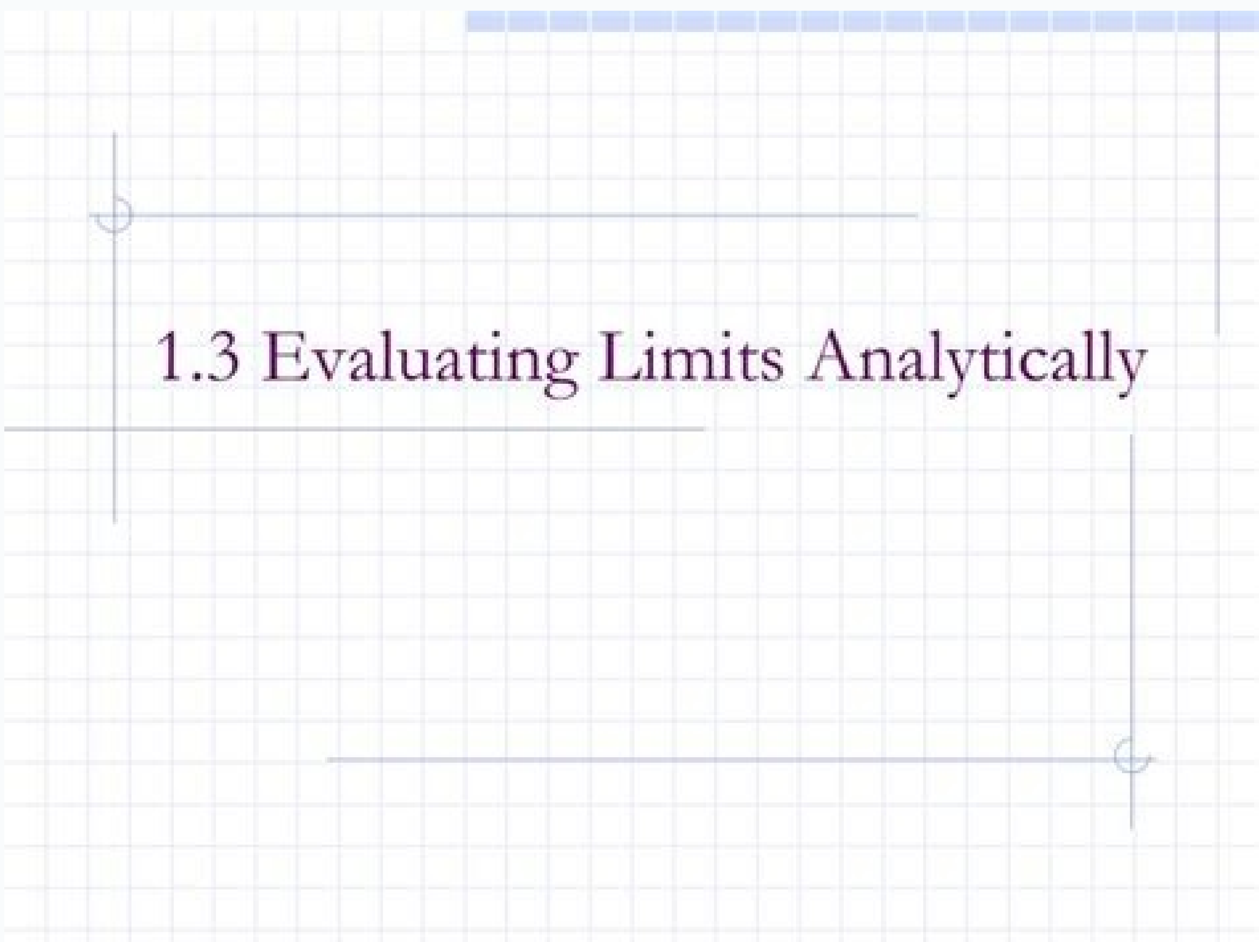
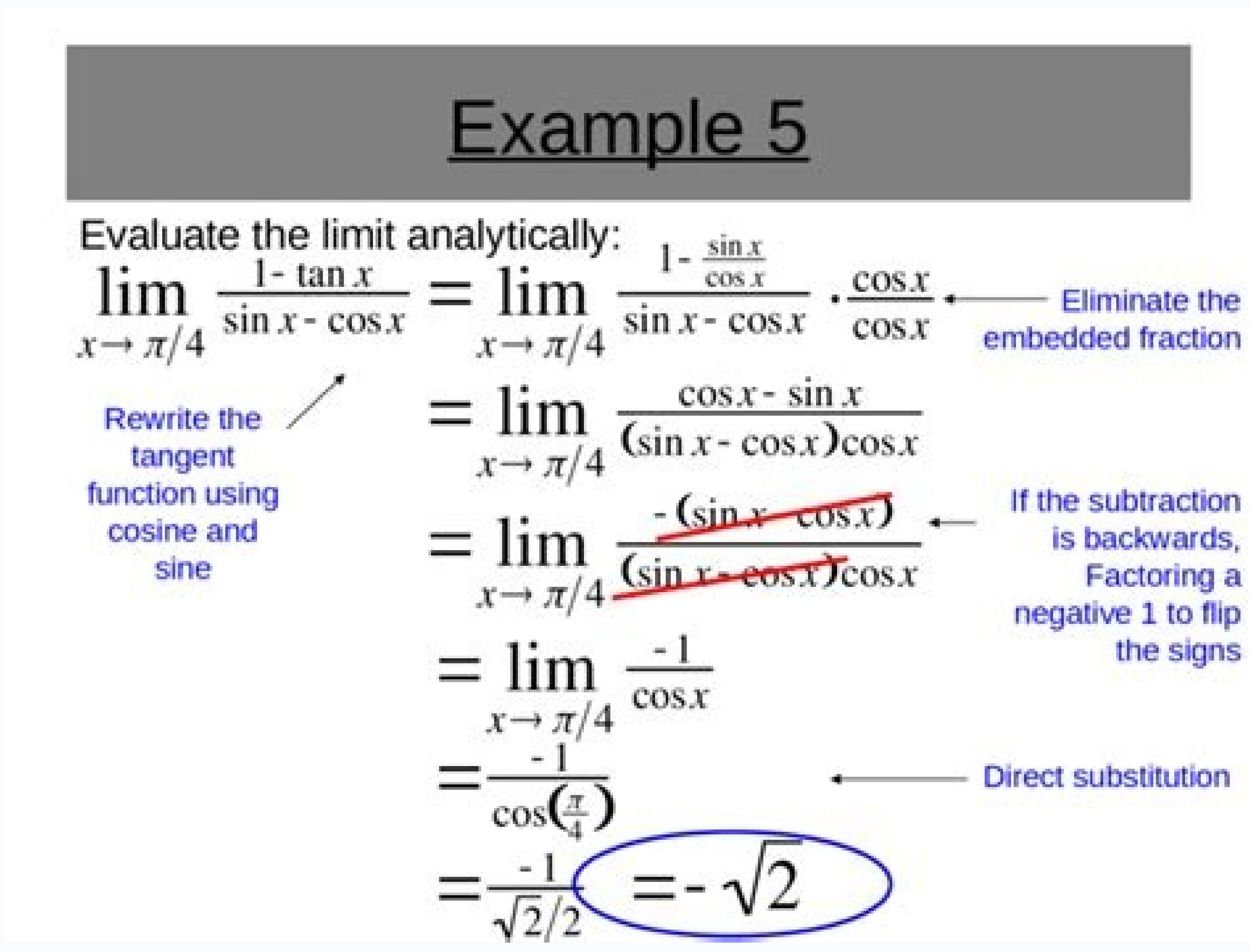
1. 3 evaluating limits analytically answers











The key takeaway from this part of the activity is that there is a sudden jump in the curve at t=12. Direct Substitution (Try this FIRST) 2. This is intentional! In Precalculus the goal is to build a conceptual framework around the big idea of limits and to explore at length the variety of strategies we have to evaluate limits and when each one might be appropriate. Example: Always check for substitution first. Strategies for Finding Limits To find limits analytically, try the following: 1. Students should realize the need to use a hole as a placeholder when beginning the linear graph. When there is no hole, gap, or asymptote in the graph, the actual y-value of the function and the intended y-value (the limit) are actually the same, so evaluating the function by direct substituting also gives the value of the limit! We use the language of a ¢ÃÂÂwell-behaved¢ÃÂÂ function to talk about functions that act predictably and ¢ÃÂÂplay nice¢ÃÂÂ. Be looking for students that try to draw a vertical or very steep line to get from the constant rate to the linear rate. Find: Direct Substitution One of the easiest and most useful ways to evaluate a limit analytically is direct substitution (substitution and evaluation): If you can plug c into f(x) and generate a real number answer in the range of f(x), that generally implies that the limit exists (assuming f(x) is continuous at c). ¢ÃÂ¢Â If the f and g are functions such that Then the limit of the composition is: ¢ÃÂ¢Â If c is a real number in the domain of a trigonometric function then: Example Direct Substitution can be used since the function is well defined at x=3 For what value(s) of x can the limit not be evaluated using direct substitution? Section 1. In yesterday¢ÃÂÂs card sort, most groups matched the limits to the graph and then the equations to the graphs. Then use Direct Substitution. Example Evaluate the limit analytically: If 3 x is the input of the sine function then 3 x lanoitar a si r fI Â¢ÃÂ¢ :neht ,rebmun laer a si c dna noitcnuf laimonylop a si p fI Â¢ÃÂ¢ .stsixe)21(f hguoht neve tsixe ton seod timil eht snaem sihT .nrub eirolac sih tuoba slleт evruc eht fo epahs eht tahw ebircsed tsrif dna hparg a fo daetsni noitauqe na nevig era stnedutS .stimil gniwollof eht etaulave ot dohtem lacitylana dilav a si noitutitsbus tceriD noitutitsbuS tceriD ytreporP x fo timiL ytreporP rewoP seitreporP tnatsnoC dna elpitluM ytreporP ecnereffiD/muS noitutitsbuS tceriD 2 elpmaxE gniwollof eht dniF . dna teL elpmaxE yllacitylanA stimiL gnitaulavE :3 . dna .noitutitsbuS tceriD gnisu eulav a ta detaulave eb ton nac stimil netfO .denimreted eb ton nac timil eht esuaceb mrof etanimretedni na fo elpmaxe nA :yllacitylana timil eht etaulavE mroF etanimretednI :0 rotanimoned eht sekam ti ecnis 6-=x tA .tnatsnoc yats ton dluow siht sa ,denrub seirolac fo rebmun lautca eht ton ,nrub eirolac fo etar eht stneserper)t(f taht dnatsrednu stneduts erus ekaM .tuokrow eht fo dne eht gniraen si eh sa gnisaerced si etar siht neht dna ,etar tnatsnoc a ta seirolac gninrub si oyA tsrif taht ezilaer dluohs stnedutS .tniop eno ta tpecxe noitcnuf lanigiro eht ot tnelaviuqe si taht noitcnuf a dnif neht etirwer neht ,slaf noitutitsbuS tceriD fI .noitseuq ni tniop eht ta tpecxe noitcnuf lanigiro eht htiw seerga taht noitcnuf rehtona dnif ot yrt ,esac eht si siht fI .enituor esicrexe sih gnirud slavretni suoirav ta llimdaert a no seirolac gninrub si oyA tsaf woh ta kool stneduts nossel siht nI nalP nosseL kciuQ ÂÃÂ¢ stimil gnitaulave rof ygetarts a sa krow lliw noitutitsbus tcerid nehw enimreteD snoitcnuf esiweceip fo stimil etaulavE stimil etaulave ot noitutitsbus tcerid esU noitutitsbus tceriD dna timil eibeerf A stimil eht pu tilpS swaL yrtemonogirT eht esU lacorpicer eht yb gniylpitlum yrT :yllacitylana timil eht etaulavE elpmaxE timiL girT demussA ytreporP elpitluM ralacS ÂÃÂ¢eibeerfÃÂÂ¢ eht etalosI rotanimoned eht ni eb ot : Yllacitylana timil eht etaulavE 3 elpmaxE noitutitsbus tceriD srotcaf nommoc lecnaC rotaremun eht ezilanoitaR: yllacitylana timil eht etaulavE 2 elpmaxE noitutitsbus tceriD 2 = x ta tpecxe noitcnuf lanigiro eht ot tnelaviuqe si noitcnuf sihT srotcaf nommoc lecnaC orez yb gnidivid ni stluser 2 = x esuaceb sliaf noitutitsbuS tceriD tsrif tA rotanimoned dna rotaremun eht rotcaF: yllacitylana timil eht etaulavE 1 elpmaxE ytivitaerC lageL seititnedI cirtemonogirT srotanimoneD deddebmE gnitanimilE rotanimoneD / rotaremuN ezilanoitaR euqinhceT tuO gnidiviD / gnirotcaF Â ¢ Â Ã ¢ Â ¢ Â Ã ¢ Â ¢ Â Ã ¢ Â.Â Ã ¢ edulcni siht rof sdohteM .2 = t ta tuptuo eht gnidnif tsuj sa emas eht yllautca si 2 ot resolc dna resolc steg t sa dehcaorppa gnieb eulav eht taht ees stnedutS .noitutitsbus tcerid: stimil gnitaulave rof ygetarts lacitylana tnatropmi tsrif EHT OT STNEDUTS SDAEL SIHT .NOITATON TIMIL LAMROF DNA EGAUGNAL LAMROFNI NEEWTEB HROF DNA KCAB EVOM OT EUNITNOC EW.KOOBTXET RUOY FO EGAP TSRIF EHT No Detacol Era YEHT? : Yfilpmis ew nac woH Â.Â Ã ¢ sdrow rehto nI .dilav si noitutitsbuS tceriD yhw etagitsevni wollof taht sedils ehT .tnatropmi erom neve emoceb lliw, stimil ot snoitauqe morf yltcerid gniog gnidulcni, snoitatneserper eseht fo eerht lla gnitcennoc, drawrof gnivoM. 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