

Find the maximum of the function  $f(x) = (26 + x)(52 - x)$   
which is within the segment  $[0,14]$ .

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$$a = 0$$

$$b = 14$$

$$f(0) = 1352$$

$$f(1) = 1377$$

$$f(2) = 1400$$

$$f(3) = 1421$$

$$f(4) = 1440$$

$$f(5) = 1457$$

$$f(6) = 1472$$

$$f(7) = 1485$$

$$f(8) = 1496$$

$$f(9) = 1505$$

$$f(10) = 1512$$

$$f(11) = 1517$$

$$f(12) = 1520$$

$$f(13) = 1521$$

$$f(14) = 1520$$

$$x_{\max} = 13$$

$$f_{\max} = 1521$$

Find the maximum of the function  $f(x) = x(11 - x)^2$   
which is within the segment  $[0,11]$ .

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$$a = 0$$

$$b = 11$$

$$f(0) = 0$$

$$f(1) = 100$$

$$f(2) = 162$$

$$f(3) = 192$$

$$f(4) = 196$$

$$f(5) = 180$$

$$f(6) = 150$$

$$f(7) = 112$$

$$f(8) = 72$$

$$f(9) = 36$$

$$f(10) = 10$$

$$f(11) = 0$$

$x_{\max} = 4$   
 $f_{\max} = 196$

Find the maximum of the function  $f(x) = x^5 - 10x - 2$   
which is within the segment  $[-2, -1]$ .

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Interval =  $[-2, -1]$ .

Length of the interval = 1.

The interval is divided by 1000.

Length of the subinterval = 0.001.

$f(-2) = -14$

$f(-1.999) = -13.93007996001$

$f(-1.998) = -13.86031968016$

$f(-1.997) = -13.79071892081$

$f(-1.996) = -13.721277442559$

$f(-1.995) = -13.651995006247$

$f(-1.994) = -13.582871372952$

$f(-1.993) = -13.513906303993$

$f(-1.992) = -13.445099560927$

$f(-1.991) = -13.376450905551$

$f(-1.99) = -13.3079600999$

$f(-1.989) = -13.239626906249$

$f(-1.988) = -13.171451087111$

$f(-1.987) = -13.103432405239$

$f(-1.986) = -13.035570623622$

$f(-1.985) = -12.967865505491$

$f(-1.984) = -12.900316814311$

$f(-1.983) = -12.83292431379$

$f(-1.982) = -12.76568776787$

$f(-1.981) = -12.698606940734$

$f(-1.98) = -12.6316815968$

$f(-1.979) = -12.564911500726$

$f(-1.978) = -12.498296417406$

$f(-1.977) = -12.431836111974$

$f(-1.976) = -12.365530349797$

$f(-1.975) = -12.299378896484$

$f(-1.974) = -12.233381517879$

$f(-1.973) = -12.167537980061$

$f(-1.972) = -12.10184804935$

$f(-1.971) = -12.036311492299$

$f(-1.97) = -11.9709280757$

$f(-1.969) = -11.905697566581$

$f(-1.968) = -11.840619732206$

$f(-1.967) = -11.775694340075$

$f(-1.966) = -11.710921157925$   
 $f(-1.965) = -11.646299953728$   
 $f(-1.964) = -11.581830495694$   
 $f(-1.963) = -11.517512552266$   
 $f(-1.962) = -11.453345892125$   
 $f(-1.961) = -11.389330284186$   
 $f(-1.96) = -11.3254654976$   
 $f(-1.959) = -11.261751301754$   
 $f(-1.958) = -11.198187466269$   
 $f(-1.957) = -11.134773761002$   
 $f(-1.956) = -11.071509956044$   
 $f(-1.955) = -11.008395821722$   
 $f(-1.954) = -10.945431128597$   
 $f(-1.953) = -10.882615647465$   
 $f(-1.952) = -10.819949149356$   
 $f(-1.951) = -10.757431405535$   
 $f(-1.95) = -10.6950621875$   
 $f(-1.949) = -10.632841266985$   
 $f(-1.948) = -10.570768415956$   
 $f(-1.947) = -10.508843406615$   
 $f(-1.946) = -10.447066011395$   
 $f(-1.945) = -10.385436002966$   
 $f(-1.944) = -10.323953154228$   
 $f(-1.943) = -10.262617238318$   
 $f(-1.942) = -10.201428028603$   
 $f(-1.941) = -10.140385298686$   
 $f(-1.94) = -10.0794888224$   
 $f(-1.939) = -10.018738373814$   
 $f(-1.938) = -9.9581337272272$   
 $f(-1.937) = -9.8976746571735$   
 $f(-1.936) = -9.8373609384182$   
 $f(-1.935) = -9.7771923459594$   
 $f(-1.934) = -9.7171686550274$   
 $f(-1.933) = -9.6572896410849$   
 $f(-1.932) = -9.5975550798264$   
 $f(-1.931) = -9.5379647471787$   
 $f(-1.93) = -9.4785184193$   
 $f(-1.929) = -9.4192158725807$   
 $f(-1.928) = -9.3600568836424$   
 $f(-1.927) = -9.3010412293384$   
 $f(-1.926) = -9.2421686867534$   
 $f(-1.925) = -9.1834390332031$   
 $f(-1.924) = -9.1248520462346$   
 $f(-1.923) = -9.0664075036258$   
 $f(-1.922) = -9.0081051833856$   
 $f(-1.921) = -8.9499448637536$

$f(-1.92) = -8.8919263232$   
 $f(-1.919) = -8.8340493404256$   
 $f(-1.918) = -8.7763136943616$   
 $f(-1.917) = -8.7187191641694$   
 $f(-1.916) = -8.6612655292406$   
 $f(-1.915) = -8.6039525691969$   
 $f(-1.914) = -8.5467800638898$   
 $f(-1.913) = -8.4897477934008$   
 $f(-1.912) = -8.4328555380408$   
 $f(-1.911) = -8.3761030783506$   
 $f(-1.91) = -8.3194901951$   
 $f(-1.909) = -8.2630166692886$   
 $f(-1.908) = -8.2066822821448$   
 $f(-1.907) = -8.1504868151263$   
 $f(-1.906) = -8.0944300499198$   
 $f(-1.905) = -8.0385117684406$   
 $f(-1.904) = -7.982731752833$   
 $f(-1.903) = -7.9270897854697$   
 $f(-1.902) = -7.871585648952$   
 $f(-1.901) = -7.8162191261095$   
 $f(-1.9) = -7.76099$   
 $f(-1.899) = -7.7058980539095$   
 $f(-1.898) = -7.650943071352$   
 $f(-1.897) = -7.5961248360693$   
 $f(-1.896) = -7.541443132031$   
 $f(-1.895) = -7.4868977434344$   
 $f(-1.894) = -7.4324884547042$   
 $f(-1.893) = -7.3782150504927$   
 $f(-1.892) = -7.3240773156792$   
 $f(-1.891) = -7.2700750353704$   
 $f(-1.89) = -7.2162079949$   
 $f(-1.889) = -7.1624759798285$   
 $f(-1.888) = -7.1088787759432$   
 $f(-1.887) = -7.0554161692582$   
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$f(-1.874) = -6.3725536757906$   
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 $f(-1.841) = -4.7379825081052$   
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$f(-1.828) = -4.1317836739144$   
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 $f(-1.825) = -3.9948397753906$   
 $f(-1.824) = -3.9494352115466$   
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 $f(-1.82) = -3.7690286432$   
 $f(-1.819) = -3.7242289269651$   
 $f(-1.818) = -3.6795495834736$   
 $f(-1.817) = -3.6349904143089$   
 $f(-1.816) = -3.5905512212726$   
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 $f(-1.814) = -3.5020319718818$   
 $f(-1.813) = -3.4579515202203$   
 $f(-1.812) = -3.4139902540728$   
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 $f(-1.806) = -3.1527145300718$   
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 $f(-1.8) = -2.89568$   
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 $f(-1.798) = -2.810937020944$   
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 $f(-1.796) = -2.726659048703$   
 $f(-1.795) = -2.6846939556219$   
 $f(-1.794) = -2.6428445332562$   
 $f(-1.793) = -2.6011105883922$   
 $f(-1.792) = -2.5594919280312$   
 $f(-1.791) = -2.5179883593899$   
 $f(-1.79) = -2.4765996899$   
 $f(-1.789) = -2.4353257272079$   
 $f(-1.788) = -2.3941662791752$   
 $f(-1.787) = -2.3531211538777$   
 $f(-1.786) = -2.3121901596062$   
 $f(-1.785) = -2.2713731048656$   
 $f(-1.784) = -2.2306697983754$   
 $f(-1.783) = -2.1900800490691$

f(-1.782) = -2.1496036660944  
f(-1.781) = -2.1092404588129  
f(-1.78) = -2.0689902368  
f(-1.779) = -2.0288528098449  
f(-1.778) = -1.9888279879504  
f(-1.777) = -1.9489155813327  
f(-1.776) = -1.9091154004214  
f(-1.775) = -1.8694272558594  
f(-1.774) = -1.8298509585026  
f(-1.773) = -1.7903863194201  
f(-1.772) = -1.7510331498936  
f(-1.771) = -1.7117912614178  
f(-1.77) = -1.6726604657  
f(-1.769) = -1.6336405746598  
f(-1.768) = -1.5947314004296  
f(-1.767) = -1.5559327553536  
f(-1.766) = -1.5172444519886  
f(-1.765) = -1.4786663031031  
f(-1.764) = -1.4401981216778  
f(-1.763) = -1.401839720905  
f(-1.762) = -1.3635909141888  
f(-1.761) = -1.3254515151448  
f(-1.76) = -1.2874213376  
f(-1.759) = -1.2495001955928  
f(-1.758) = -1.2116879033728  
f(-1.757) = -1.1739842754006  
f(-1.756) = -1.1363891263478  
f(-1.755) = -1.0989022710969  
f(-1.754) = -1.061523524741  
f(-1.753) = -1.024252702584  
f(-1.752) = -0.98708962014003  
f(-1.751) = -0.95003409313374  
f(-1.75) = -0.9130859375  
f(-1.749) = -0.87624496938376  
f(-1.748) = -0.83951100513997  
f(-1.747) = -0.80288386133351  
f(-1.746) = -0.76636335473897  
f(-1.745) = -0.72994930234063  
f(-1.744) = -0.69364152133222  
f(-1.743) = -0.65743982911695  
f(-1.742) = -0.62134404330723  
f(-1.741) = -0.58535398172471  
f(-1.74) = -0.5494694624  
f(-1.739) = -0.5136903035727  
f(-1.738) = -0.47801632369117  
f(-1.737) = -0.44244734141246

$f(-1.736) = -0.40698317560218$   
 $f(-1.735) = -0.37162364533438$   
 $f(-1.734) = -0.33636856989142$   
 $f(-1.733) = -0.3012177687639$   
 $f(-1.732) = -0.26617106165043$   
 $f(-1.731) = -0.23122826845766$   
 $f(-1.73) = -0.1963892093$   
 $f(-1.729) = -0.16165370449965$   
 $f(-1.728) = -0.12702157458637$   
 $f(-1.727) = -0.092492640297412$   
 $f(-1.726) = -0.058066722577374$   
 $f(-1.725) = -0.023743642578129$   
 $f(-1.724) = 0.010476778341376$   
 $f(-1.723) = 0.044594718615153$   
 $f(-1.722) = 0.078610356470367$   
 $f(-1.721) = 0.1125238699274$   
 $f(-1.72) = 0.1463354368$   
 $f(-1.719) = 0.1800452346954$   
 $f(-1.718) = 0.21365344101443$   
 $f(-1.717) = 0.24716023295164$   
 $f(-1.716) = 0.28056578749543$   
 $f(-1.715) = 0.31387028142812$   
 $f(-1.714) = 0.34707389132618$   
 $f(-1.713) = 0.3801767935602$   
 $f(-1.712) = 0.41317916429517$   
 $f(-1.711) = 0.44608117949045$   
 $f(-1.71) = 0.4788830149$   
 $f(-1.709) = 0.51158484607245$   
 $f(-1.708) = 0.54418684835123$   
 $f(-1.707) = 0.57668919687469$   
 $f(-1.706) = 0.60909206657622$   
 $f(-1.705) = 0.64139563218437$   
 $f(-1.704) = 0.67360006822298$   
 $f(-1.703) = 0.70570554901126$   
 $f(-1.702) = 0.73771224866397$   
 $f(-1.701) = 0.7696203410915$   
 $f(-1.7) = 0.80143$   
 $f(-1.699) = 0.8331413988915$   
 $f(-1.698) = 0.86475471106403$   
 $f(-1.697) = 0.89627010961174$   
 $f(-1.696) = 0.92768776742503$   
 $f(-1.695) = 0.95900785719062$   
 $f(-1.694) = 0.99023055139178$   
 $f(-1.693) = 1.0213560223083$   
 $f(-1.692) = 1.0523844420168$   
 $f(-1.691) = 1.0833159823905$



$f(-1.69) = 1.1141508151$   
 $f(-1.689) = 1.1448891116125$   
 $f(-1.688) = 1.1755310431928$   
 $f(-1.687) = 1.2060767809028$   
 $f(-1.686) = 1.2365264956018$   
 $f(-1.685) = 1.2668803579469$   
 $f(-1.684) = 1.2971385383926$   
 $f(-1.683) = 1.3273012071914$   
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 $f(-1.681) = 1.3873406898476$   
 $f(-1.68) = 1.4172178432$   
 $f(-1.679) = 1.4470001638956$   
 $f(-1.678) = 1.4766878211776$   
 $f(-1.677) = 1.5062809840878$   
 $f(-1.676) = 1.5357798214666$   
 $f(-1.675) = 1.5651845019531$   
 $f(-1.674) = 1.5944951939854$   
 $f(-1.673) = 1.6237120658004$   
 $f(-1.672) = 1.6528352854344$   
 $f(-1.671) = 1.6818650207226$   
 $f(-1.67) = 1.7108014393$   
 $f(-1.669) = 1.7396447086007$   
 $f(-1.668) = 1.7683949958584$   
 $f(-1.667) = 1.7970524681069$   
 $f(-1.666) = 1.8256172921794$   
 $f(-1.665) = 1.8540896347094$   
 $f(-1.664) = 1.8824696621302$   
 $f(-1.663) = 1.9107575406755$   
 $f(-1.662) = 1.9389534363792$   
 $f(-1.661) = 1.9670575150757$   
 $f(-1.66) = 1.9950699424$   
 $f(-1.659) = 2.0229908837877$   
 $f(-1.658) = 2.0508205044752$   
 $f(-1.657) = 2.0785589694999$   
 $f(-1.656) = 2.1062064437002$   
 $f(-1.655) = 2.1337630917156$   
 $f(-1.654) = 2.161229077987$   
 $f(-1.653) = 2.1886045667565$   
 $f(-1.652) = 2.215889722068$   
 $f(-1.651) = 2.2430847077667$   
 $f(-1.65) = 2.2701896875$   
 $f(-1.649) = 2.2972048247167$   
 $f(-1.648) = 2.324130282668$   
 $f(-1.647) = 2.350966224407$   
 $f(-1.646) = 2.377712812789$   
 $f(-1.645) = 2.4043702104719$

$f(-1.644) = 2.4309385799158$   
 $f(-1.643) = 2.4574180833836$   
 $f(-1.642) = 2.4838088829408$   
 $f(-1.641) = 2.5101111404558$   
 $f(-1.64) = 2.5363250176$   
 $f(-1.639) = 2.5624506758478$   
 $f(-1.638) = 2.5884882764768$   
 $f(-1.637) = 2.614437980568$   
 $f(-1.636) = 2.6402999490058$   
 $f(-1.635) = 2.6660743424781$   
 $f(-1.634) = 2.6917613214766$   
 $f(-1.633) = 2.7173610462966$   
 $f(-1.632) = 2.7428736770376$   
 $f(-1.631) = 2.7682993736028$   
 $f(-1.63) = 2.7936382957$   
 $f(-1.629) = 2.8188906028409$   
 $f(-1.628) = 2.8440564543416$   
 $f(-1.627) = 2.8691360093231$   
 $f(-1.626) = 2.8941294267106$   
 $f(-1.625) = 2.9190368652344$   
 $f(-1.624) = 2.9438584834294$   
 $f(-1.623) = 2.9685944396357$   
 $f(-1.622) = 2.9932448919984$   
 $f(-1.621) = 3.0178099984679$   
 $f(-1.62) = 3.0422899168$   
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 $f(-1.195) = 7.5130897962531$   
 $f(-1.194) = 7.5132690226318$   
 $f(-1.193) = 7.5134142048108$   
 $f(-1.192) = 7.5135254282568$   
 $f(-1.191) = 7.513602778293$   
 $f(-1.19) = 7.5136463401$   
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 $f(-1.186) = 7.5134844036418$   
 $f(-1.185) = 7.5133602970094$

$f(-1.184) = 7.5132029102326$   
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 $f(-1.182) = 7.5127886328336$   
 $f(-1.181) = 7.5125319101501$   
 $f(-1.18) = 7.5122422432$   
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 $f(-1.178) = 7.5115644108176$   
 $f(-1.177) = 7.5111764121903$   
 $f(-1.176) = 7.5107558029066$   
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 $f(-1.167) = 7.5055164964094$   
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 $f(-1.161) = 7.5005895231782$   
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 $f(-1.159) = 7.4986959436902$   
 $f(-1.158) = 7.4977024077152$   
 $f(-1.157) = 7.4966778150024$   
 $f(-1.156) = 7.4956222459402$   
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 $f(-1.154) = 7.493418499627$   
 $f(-1.153) = 7.492270482459$   
 $f(-1.152) = 7.491091809108$   
 $f(-1.151) = 7.4898825592692$   
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 $f(-1.148) = 7.486072145708$   
 $f(-1.147) = 7.4847413841095$   
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 $f(-1.142) = 7.4776364501808$   
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 $f(-1.127) = 7.4518924084256$   
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 $f(-1.121) = 7.4397766581704$   
 $f(-1.12) = 7.4376583168$   
 $f(-1.119) = 7.4355118768584$   
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 $f(-1.108) = 7.4100679422392$   
 $f(-1.107) = 7.4075901464777$   
 $f(-1.106) = 7.4050852192642$   
 $f(-1.105) = 7.4025532340594$   
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 $f(-1.103) = 7.3974083828543$   
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 $f(-1.101) = 7.3921561778945$   
 $f(-1.1) = 7.38949$   
 $f(-1.099) = 7.3867972020945$   
 $f(-1.098) = 7.384077856712$   
 $f(-1.097) = 7.3813320362547$   
 $f(-1.096) = 7.378559812993$   
 $f(-1.095) = 7.3757612590656$   
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 $f(-1.093) = 7.3700854471113$

$f(-1.092) = 7.3672083327048$   
 $f(-1.091) = 7.3643051748736$   
 $f(-1.09) = 7.3613760451$   
 $f(-1.089) = 7.3584210147356$   
 $f(-1.088) = 7.3554401550008$   
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 $f(-1.08) = 7.3306719232$   
 $f(-1.079) = 7.3274617825386$   
 $f(-1.078) = 7.3242265175456$   
 $f(-1.077) = 7.3209661980108$   
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 $f(-1.075) = 7.3143706738281$   
 $f(-1.074) = 7.3110356081134$   
 $f(-1.073) = 7.3076757657234$   
 $f(-1.072) = 7.3042912158024$   
 $f(-1.071) = 7.3008820273657$   
 $f(-1.07) = 7.2974482693$   
 $f(-1.069) = 7.2939900103637$   
 $f(-1.068) = 7.2905073191864$   
 $f(-1.067) = 7.2870002642699$   
 $f(-1.066) = 7.2834689139874$   
 $f(-1.065) = 7.2799133365844$   
 $f(-1.064) = 7.2763336001782$   
 $f(-1.063) = 7.2727297727585$   
 $f(-1.062) = 7.2691019221872$   
 $f(-1.061) = 7.2654501161987$   
 $f(-1.06) = 7.2617744224$   
 $f(-1.059) = 7.2580749082707$   
 $f(-1.058) = 7.2543516411632$   
 $f(-1.057) = 7.2506046883029$   
 $f(-1.056) = 7.2468341167882$   
 $f(-1.055) = 7.2430399935906$   
 $f(-1.054) = 7.239222385555$   
 $f(-1.053) = 7.2353813593995$   
 $f(-1.052) = 7.231516981716$   
 $f(-1.051) = 7.2276293189697$   
 $f(-1.05) = 7.2237184375$   
 $f(-1.049) = 7.2197844035198$   
 $f(-1.048) = 7.215827283116$   
 $f(-1.047) = 7.21184714225$

$f(-1.046) = 7.207844046757$   
 $f(-1.045) = 7.2038180623469$   
 $f(-1.044) = 7.1997692546038$   
 $f(-1.043) = 7.1956976889866$   
 $f(-1.042) = 7.1916034308288$   
 $f(-1.041) = 7.1874865453388$   
 $f(-1.04) = 7.1833470976$   
 $f(-1.039) = 7.1791851525708$   
 $f(-1.038) = 7.1750007750848$   
 $f(-1.037) = 7.170794029851$   
 $f(-1.036) = 7.1665649814538$   
 $f(-1.035) = 7.1623136943531$   
 $f(-1.034) = 7.1580402328846$   
 $f(-1.033) = 7.1537446612596$   
 $f(-1.032) = 7.1494270435656$   
 $f(-1.031) = 7.1450874437658$   
 $f(-1.03) = 7.1407259257$   
 $f(-1.029) = 7.1363425530838$   
 $f(-1.028) = 7.1319373895096$   
 $f(-1.027) = 7.1275104984461$   
 $f(-1.026) = 7.1230619432386$   
 $f(-1.025) = 7.1185917871094$   
 $f(-1.024) = 7.1141000931574$   
 $f(-1.023) = 7.1095869243587$   
 $f(-1.022) = 7.1050523435664$   
 $f(-1.021) = 7.1004964135109$   
 $f(-1.02) = 7.0959191968$   
 $f(-1.019) = 7.0913207559189$   
 $f(-1.018) = 7.0867011532304$   
 $f(-1.017) = 7.0820604509751$   
 $f(-1.016) = 7.0773987112714$   
 $f(-1.015) = 7.0727159961156$   
 $f(-1.014) = 7.0680123673822$   
 $f(-1.013) = 7.0632878868237$   
 $f(-1.012) = 7.0585426160712$   
 $f(-1.011) = 7.0537766166339$   
 $f(-1.01) = 7.0489899499$   
 $f(-1.009) = 7.044182677136$   
 $f(-1.008) = 7.0393548594872$   
 $f(-1.007) = 7.0345065579782$   
 $f(-1.006) = 7.0296378335122$   
 $f(-1.005) = 7.0247487468719$   
 $f(-1.004) = 7.019839358719$   
 $f(-1.003) = 7.0149097295948$   
 $f(-1.002) = 7.00995991992$   
 $f(-1.001) = 7.004989989995$

$$f(-1) = 7$$

Answer:

$$x_{\max} = -1.189$$

$$f_{\max} = 7.51366$$

Find the minimum of the function  $f(x) = x^5 - 10x - 2$   
which is within the segment  $[1,2]$ .

---

Interval =  $[1,2]$ .

Length of the interval = 1.

The interval is divided by 1000.

Length of the subinterval = 0.001.

$$f(1) = -11$$

$$f(1.001) = -11.004989989995$$

$$f(1.002) = -11.00995991992$$

$$f(1.003) = -11.014909729595$$

$$f(1.004) = -11.019839358719$$

$$f(1.005) = -11.024748746872$$

$$f(1.006) = -11.029637833512$$

$$f(1.007) = -11.034506557978$$

$$f(1.008) = -11.039354859487$$

$$f(1.009) = -11.044182677136$$

$$f(1.01) = -11.0489899499$$

$$f(1.011) = -11.053776616634$$

$$f(1.012) = -11.058542616071$$

$$f(1.013) = -11.063287886824$$

$$f(1.014) = -11.068012367382$$

$$f(1.015) = -11.072715996116$$

$$f(1.016) = -11.077398711271$$

$$f(1.017) = -11.082060450975$$

$$f(1.018) = -11.08670115323$$

$$f(1.019) = -11.091320755919$$

$$f(1.02) = -11.0959191968$$

$$f(1.021) = -11.100496413511$$

$$f(1.022) = -11.105052343566$$

$$f(1.023) = -11.109586924359$$

$$f(1.024) = -11.114100093157$$

$$f(1.025) = -11.118591787109$$

$$f(1.026) = -11.123061943239$$

$$f(1.027) = -11.127510498446$$

$$f(1.028) = -11.13193738951$$

$$f(1.029) = -11.136342553084$$

$$f(1.03) = -11.1407259257$$



f(1.031) = -11.145087443766  
f(1.032) = -11.149427043566  
f(1.033) = -11.15374466126  
f(1.034) = -11.158040232885  
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f(1.038) = -11.175000775085  
f(1.039) = -11.179185152571  
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f(1.048) = -11.215827283116  
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f(1.052) = -11.231516981716  
f(1.053) = -11.2353813594  
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f(1.077) = -11.320966198011  
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$$f(1.997) = 9.7907189208098$$

$$f(1.998) = 9.86031968016$$

$$f(1.999) = 9.93007996001$$

$$f(2) = 10$$

Answer:

$$x_{\min} = 1.189$$

$$f_{\min} = -11.51366$$