
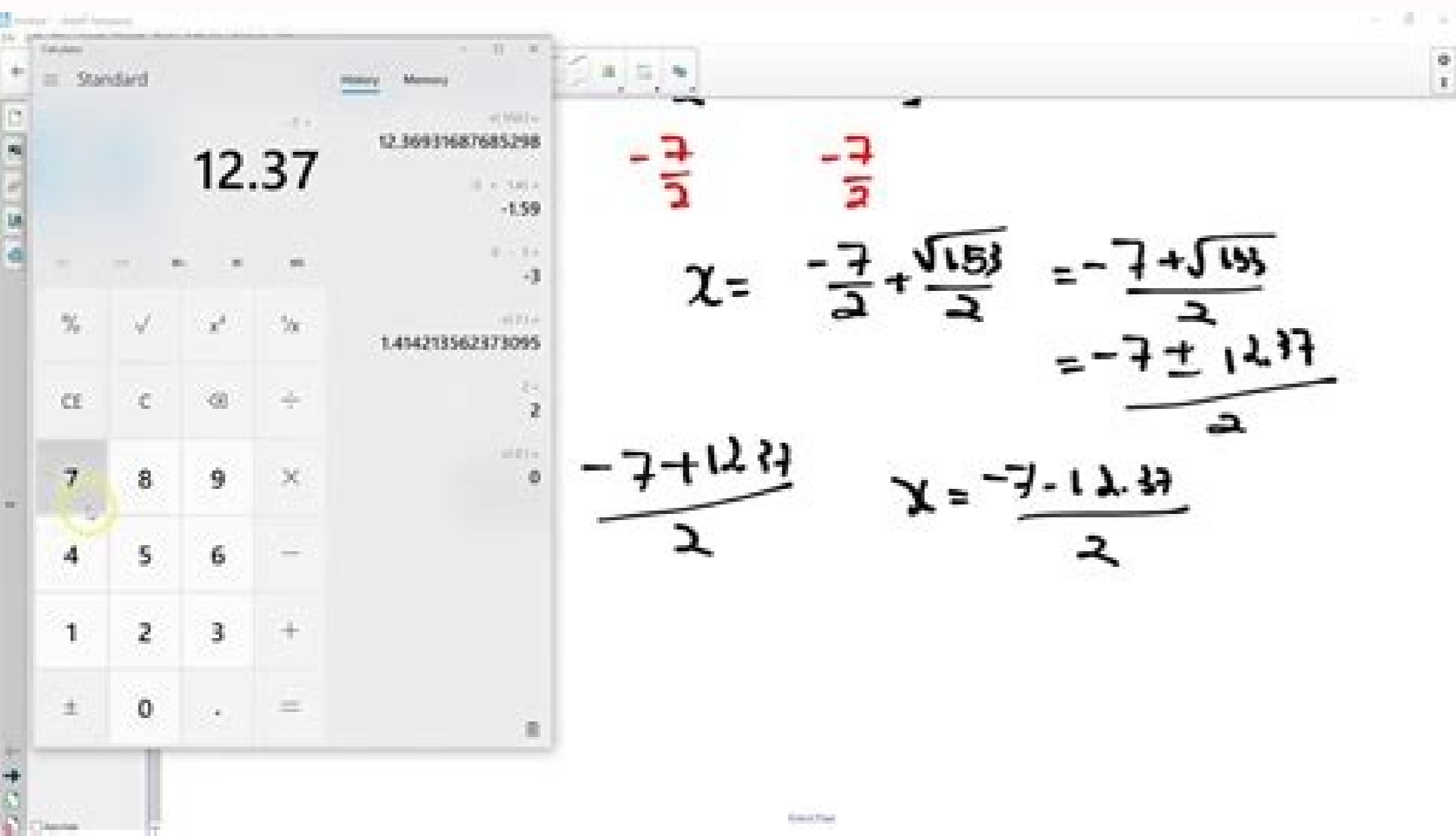


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# Completed square form questions



$$x^2 + 6x - 1 = 0$$

$$x^2 + 6x + 9 - 9 - 1 = 0$$

$$(x^2 + 6x + 9) - 9 - 1 = 0$$

$$(x + 3)^2 - 9 - 1 = 0$$

$$(x + 3)^2 - 10 = 0$$

2. Squaring it Step by Step

$$(x + 1)^2 = (x+1)(x+1) = x^2 + x + x + 1 = x^2 + 2x + 1$$

$$(x - 3)^2 = (x-3)(x-3) = x^2 - 3x - 3x + 9 = x^2 - 6x + 9$$

$$(x + 4)^2 = (x+4)(x+4) = x^2 + 4x + 4x + 16 = x^2 + 8x + 16$$

$$(x+a)^2 = x^2 + 2a + a^2$$

$$x^2 + 8x + 15 = (x + 4)^2 - 1$$

$$x^2 + 8x + 14 = (x + 4)^2 - 2$$

$$x^2 + 8x + 17 = (x + 4)^2 + 1$$

$$x^2 + 8x = (x + 4)^2 - 16$$

$$y = x^2(x+1)$$

$$x^2 - 6x + 1 = 0$$

$$x^2 - 6x + 9 = -1$$

For example "x" can be a function (like cos (z)) and rearranging it can open a path to a better solution. Examples OK, some examples will help! Step 1 can be skipped in this example since the coefficient of X2 is 1 Step 2 Move the end of the number to the right side of the equation: X2 + 4x = -1 Step 3 Complete the square on the left side of the equation and balance by adding the same number to the right side of the equation. Keep the balance now... we can't just add (B/2) 2 without subtracting this too! Otherwise the whole value changes. Now we have something that looks like (X + P) 2 = Q, which can be solved quite easily; Step 4 take the square root on both sides of the equation. "Complete the square" is where we are ... At the original plus A of X2 and you will notice that we have: where: D = B 2A and: E = c is b2 4a as at the top of the page | Copyright © 2021 Mathsfun.com You may like this method. Also completing the square is the first step in the derivation of the quadratic formula, think of this as another tool in the Mathematics toolbox. What can we do? At the end of step 3 we had the equation: (x + 2) 2 = 3 gives us the vertex (turning point) of x2 + 4x + 1: (-2, -3) step 1 divide all terms by 5 X2 - "0.8x + " 0.4 = 0 Step 2 Move the number term to the right side of the equation: X 2 - "0.8x + " 0.4 Step 3 Complete the square on the left side of the equation and balance this by adding the same number to the right side of the equation: (B / 2) 2 = (0.8 / 2) 2 = 0.42 = 0.16 x2 - "0.8x + 0.16 = 0.4 + 0.16 (x - 0.4) 2 = 0.56 Step 4 Take the square root on both sides of the equation: x - 0.4 = ± 0.56 = ± 0.748 (to 3 decimal places) Step 5 subtract (-0.4) from both sides (in other words, Add 0.4): X = 0.748 + 0.4 = 1.148 - 0.4 = 0.748 - 0.4 = 0.348 - 0.4 = -0.052 .enoizauqe'lled ortsed otal lus )A / C( oremun led enimret li atsopS 2 oiggassaP .xb + 2x emoc ecilpmes enoisserspse'nu omaibba ehc omaicid "otardauq li atelpmoC" ©AhcreP 841.1 elohw eht edivid tsuj .gniht lufesu dna gnitseretni na si ereh dna 72.0- ro 37.3- = 2 ÁÁÁ 37.1Á±Á = x :sedis htob morf 2 tcartbuS 5 petS Islamiced 2 ot( 37.1Á±Á = 3ÁÁÁeÁ±Á = 2 + x :noitauqe eht fo sedis htob no toor erauqs eht ekaT 4 petS 3 = 2)2 + x( 4 + 1- = 4 + x4 + 2x 4 = 22 = 2)2/4( = 2)2/b( ... .esu ot reisaie si heihw ,ecno ylno x sah 2)2/b+x( fo tluser ehtT .Jorez ot lauge si ti erehw dni(i noitauqE citardauQ a evlos ot erauqs eht etelpmoc nac eW erauqS eht gnitelpmoC yb snitauqE citardauQ lareneG gnivloS .enod era ew dna ti ylipmiS mret wen eht tcartbus osia :erauqS eht etelpmoC Á Á Á Jesac siht ni 6 si "b"( Á Á Á Á htiw tratS :elpmaxe na htiw yilreporp ti od ot woh ees s'tel oS ... htiw laed ot ysae si taht tuB 0 = c + xb + 2xa :2x fo tncorf ni a fo tneiffoc a evah nac noitauqE citardauQ lareneq a tuB .noitauqe eht fo edis thir eht ot eulav emas eht gnidda yb siht enalab dna noitauqe eht fo edis tfeI eht no erauqs eht etelpmoC 3 petS ... erauqs a otni yltraen degnarraer eb nac xb + 2x ees nac uoy sÁ :siht ekil .ti trovnoc nac ew yrtemocG morf noitarpsni ettli a htiw .lleW "noitauqE citardauQ a evlos ot alumrof citardauQ eht esu tsuj nac ew nehW erauqs eht etelpmoc yhW .evlos ot reisaie ti sekam tub .xetrev eht su swobs ylno ton mrof wen eht erehw .evoba nevig si nosaer eno .lleW ... erauqs eht etelpmoc nac ew 2)2/b( gnidda yb .oS Á Á Á "erauqS eht etelpmoC" Á Á 2)2/b+x( = 2)2/b( + xb + 2x :siht ekil skool ti arbeglA ni 2)2/b( htiw erauqs eht etelpmoc nac ew dna .drah efil ekam nac noisserpe emas eht ni ecivt x gnivaH .ecno sraepa ylno x esuaceb .reisaie noitulos eht sekam e + 2)d+x(a sa ti gnignarraer dna noitsequ regral a fo trap eb yam c + xb + 2xa mrof eht nehW semit osla era erehT .x dnif ot noitauqe eht fo edis tfeI eht no sniamer taht rebmun eht tcartbuS 5 petS .rewsna na teg ot yaw kciua si si ereH hcaorppA tuctrohS A lenod si boj ruo dna ,ecno sraepa ylno x won dna 2 ÁÁÁe 2)3+x( Á Á Á = Á Á 7 + x6 + 2x .issets iov »AazaiP al eratepmoC«Á emoc irtsom iv ehc etaicsal ,opmet ereva c = e: e a2b = d :ehc ivrid ossop ,atterf onnah ehc iov id illeuq reP 0 = e + 2 )d+x( a 0 = c + xb + 2xa :otsequ ni alramofsart e :atsequ emoc odarg odnoces id enoizauqeánu erednerp ... artsinis a ... odarg odnoces id inoizauqe erevlosir :elitu enoizacilppaánu da ataihccoánu omaid ,arO larpos emoc 2«Á 2 )3+x( otatlusir ossets ol omainetto E 2«Á eresse eved e idniug ,e + 9 = e + 2d eratevid eved 7 ehc omaidev ioP 3 eresse eved d idniug ,xd2 emoc erinif eved x6 ehc omaippaS :atsopsir anu »Aerazrof«Á omaissop arO e de d erirpocs rep amrof alleuq ni oipmese orton li eramrofsart omaissop es omaidev arO e + 2d + xd2 + 2x :omainetto 2 )d+x( osnapse reva opoD e + 2 )d+x( :omailgov ehc otatlusir la omaisnep amirP ?anigap alled oiziniállad e de d id irolav i otunetto oh emoC 6021 ,2123 ,1123 ,6983 ,3123 ,2332 ,1332 ,563 ,5021 ,463 ...orteidni ottut atropir arO »Atardauq li atelpmoC«Á Á ital i libmartne da 2 )a2/b( ignuiggA otal ortiaállad a/c tuP nu rep enoizauqeáil idivid noc aizini1 .)2x id etneiciffoc li( a rep mimmret i titut idivid1 ossaP :issap 5 ni odarg odnoces id enoizauqeánu erevlosir omaissop arO issap 0 = a/c + x )a/b( + 2x :aunitnoc top ,»Aa«Á rep amirP

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