***t* distribution**

Use the calculator provided to solve the following problems.

* Consider a [*t* distribution](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1PfKlxhPMJi6MfERVtTyR8UxDLmjLrqxhVW650ANHTZxMMN7FkfWF0xuYcqlu7Tw4BxMW3qJitTarBGWvKqpP7Ut7xlVuyNl38Uxtj0go9_efbFNd1G9?1hjOcJh6p-F5oML868EyPDUYUj9sWwIGdHBPAm1YDDA9_7uvAnKnahJ1piCENe10OboJqwmDTfhTH9bMTb99QO0Hoz_C32nFtG0LhHbe-rzx1R0mt) with http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?12[degrees of freedom](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1mOrRNWyvR1qvLmIJU7q9gFchCIJ1ZbSllzq7fE9gMqSvy_msIOwsfi3iarGU27seviOXWbS6U7FNvsUzzrC32nDANg1UH_GYgFSEtE-FixzanZ9rGsF?1aXEve1lOLuM7FqvRr7lqfHDstaJOZKpzhKXYoB-Am1-EEphI7Ze0nbCudSBhiVimDWxG4yItUu0Vf2OW9Q4VbFhvGhka9KMZ272LjhTdHQAOrnoANhER). Compute http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?S%23%2B%2E2%2D7%3A%23%25ow%23w%23%25ow%232%2D7%3A%2A. Round your answer to at least three decimal places.
* Consider a *t* distribution with http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?0degrees of freedom. Find the value of http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%60such that http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?S%23%2Bw%23%25of%23%60%2A%23%3E%233%2D23. Round your answer to at least three decimal places.

P ( -1.49 < t < 1.49)=

C =