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| **Chi-square distribution** Use the calculator provided to solve the following problems.* Suppose that http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%25hkj%3Fpvs%3D1%3F%2Cpvs%3Dfollows a [chi-square distribution](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1KaCbcfWrcrUr_gE-mkwmDJa1eUN8fEakAOU3dMBp1AarjwjUMa5UdqSVlDt9DkbtSq8htE9Jmkk4S55NbDyIeBOYcoR9twtnDJa7PlG9nmy7f2Laz_F?1V8lhX5IzhMPxBOZdzx_in4XIWrkZ0hfkOp90Luz4KbK4J-HnOhiMGE8FXtpFhPQGIkHfvhfCG9Fzn4G4XD9xmd_gdqzo4D8eRdOCdKv-leRANBkrko5x4waSmBD) with http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?4[degrees of freedom](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1ymz-5rms5KusaktDDJaPAGQa1prvRYfwBMulccTZiVfsvW2trNJtcyAm4Y651JkjKayn8YfWDB1O6IJxt8ik1GUR5tl58W6bAGfQo6C5ULxQRdKcWQo?1SfX2_hPnjFocb7FgVEPdA2w3GFqnlqGjZqIKS6KqPdKbIg-sfY2trRJGnbbNzBbM_grF-n8kqwgyAGKvKN9ysT-2EXQOKqIJLEiS1Mkm5NlnVTtqJMXg). Compute http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?S%2B%25hkj%3Fpvs%3D1%3F%2Cpvs%3D%23%25of%236%2A. Round your answer to at least three decimal places.
* Suppose again that http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%25hkj%3Fpvs%3D1%3F%2Cpvs%3Dfollows a chi-square distribution with http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?4degrees of freedom. Find http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?hsuch that http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?S%2B%25hkj%3Fpvs%3D1%3F%2Cpvs%3D%23%25df%23h%2A%23%3E%233%2D2. Round your answer to at least two decimal places.
* Find the [median](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/16apXSj1gSrWgPgYYNkHQeBNmmUtqjDNW1OW6hMOzE1NgGwlZXyIZh4J7MDFoekKrkqF9qDDANdBMkKIfreoJmBXtSo4oqw35eBN4xlXoZNo4j23Pu_9?1ManU6j13J0EkQpdCAg1pWJOWi2t2Gg6qfH0gMNMgkKuRoXgmRgaljFshFvI8l9waeXZbkR2Ht900Ng_lk4zQb99xekbLcy8aqYwyDhF) of the chi-square distribution with http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?4degrees of freedom. Round your answer to at least two decimal places.
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P ($x^{2}$ ≤ 5) =

K =

Median =