**Expectation and variance of a random variable**

Let http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%5Bbe a [random variable](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1JcTZisw3i2Y3Gwhr4HsTt1FOqZ92Xon_8YYH1CcJ7mF3gqJkhcbk1MXUh4v1qHruR0fiafGZ2zyDR0ExIjXEyRA0bwaSmOZLSqOPnmqLG2TdH_AfYy?1jYjl4a5C6rKyIGLrh_5624vShcLk0dgTfEjOLmvAYze_CvUiHJwm02NS-DxS8n7JZQZloSQD33RnsUrUEgBgd54e4wYUEBW396GwwN0cTVarJjbouR) with the following [probability distribution](http://www.phoenix.aleks.com/alekscgi/x/Isl.exe/1zbOeaBgmaO-meVc_VC-pOhwSs8hi7u24jA-T_-6lj92mtLIGybLG_fbAytDCsCt7ikmXdIveqw3wikBrp_4U2mxgTVHjBxCznLvbl9tzeOOOKyxKfq?1fEotq37lKfLwoJ1LkK7ZgRSaHM_5xd62j8juqZnLclQnPhfhs7ouVDqdXqz9hjaPJdrUjYsUV9yWwb_VuxXIFulbGpdt0kT8SoS_LW3t0OmlW_Cq2L8C-Cfs_rSSbo):

|  |  |
| --- | --- |
| Value http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%7Bof http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%5B | http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?S%2B%5B%23%3E%7B%2A |
| 4 | 0.30 |
| 5 | 0.05 |
| 6 | 0.20 |
| 7 | 0.30 |
| 8 | 0.10 |
| 9 | 0.05 |

Find the expectation http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?F%2B%5B%2Aand variance http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?Ubq%2B%5B%2Aof http://www.phoenix.aleks.com/alekscgi/x/math2htgif.exe/M?%5B.