



Distribución t de Student.

Objetivo: Determinar probabilidad, intervalos de confianza unilaterales y calcular el valor P en pruebas de hipótesis.

| | | Probabilidad acumulada | | | | | | | | | | | | | | |
|-------|-----------|------------------------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| q.l | 0.0010 | 0.0025 | 0.0050 | 0.0100 | 0.0200 | 0.0250 | 0.0500 | 0.1000 | 0.1500 | 0.2000 | 0.2500 | 0.3000 | 0.3500 | 0.4000 | 0.4500 | 0.5000 |
| 1 | -318.3088 | -127.3213 | -63.6567 | -31.8205 | -15.8945 | -12.7062 | -6.3138 | -3.0777 | -1.9626 | -1.3764 | -1.0000 | -0.7265 | -0.5095 | -0.3249 | -0.1584 | 0.0000 |
| 2 | -22.3271 | -14.0890 | -9.9248 | -6.9646 | -4.8487 | -4.3027 | -2.9200 | -1.8856 | -1.3862 | -1.0607 | -0.8165 | -0.6172 | -0.4447 | -0.2887 | -0.1421 | 0.0000 |
| 3 | -10.2145 | -7.4533 | -5.8409 | -4.5407 | -3.4819 | -3.1824 | -2.3534 | -1.6377 | -1.2498 | -0.9785 | -0.7649 | -0.5844 | -0.4242 | -0.2767 | -0.1366 | 0.0000 |
| 4 | -7.1732 | -5.5976 | -4.6041 | -3.7469 | -2.9985 | -2.7764 | -2.1318 | -1.5332 | -1.1896 | -0.9410 | -0.7407 | -0.5686 | -0.4142 | -0.2707 | -0.1338 | 0.0000 |
| 5 | -5.8934 | -4.7733 | -4.0321 | -3.3649 | -2.7565 | -2.5706 | -2.0150 | -1.4759 | -1.1558 | -0.9195 | -0.7267 | -0.5594 | -0.4082 | -0.2672 | -0.1322 | 0.0000 |
| 6 | -5.2076 | -4.3168 | -3.7074 | -3.1427 | -2.6122 | -2.4469 | -1.9432 | -1.4398 | -1.1342 | -0.9057 | -0.7176 | -0.5534 | -0.4043 | -0.2648 | -0.1311 | 0.0000 |
| 7 | -4.7853 | -4.0293 | -3.4995 | -2.9980 | -2.5168 | -2.3646 | -1.8946 | -1.4149 | -1.1192 | -0.8960 | -0.7111 | -0.5491 | -0.4015 | -0.2632 | -0.1303 | 0.0000 |
| 8 | -4.5008 | -3.8325 | -3.3554 | -2.8965 | -2.4490 | -2.3060 | -1.8595 | -1.3968 | -1.1081 | -0.8889 | -0.7064 | -0.5459 | -0.3995 | -0.2619 | -0.1297 | 0.0000 |
| 9 | -4.2968 | -3.6897 | -3.2498 | -2.8214 | -2.3984 | -2.2622 | -1.8331 | -1.3830 | -1.0997 | -0.8834 | -0.7027 | -0.5435 | -0.3979 | -0.2610 | -0.1293 | 0.0000 |
| 10 | -4.1437 | -3.5814 | -3.1693 | -2.7638 | -2.3593 | -2.2281 | -1.8125 | -1.3722 | -1.0931 | -0.8791 | -0.6998 | -0.5415 | -0.3966 | -0.2602 | -0.1289 | 0.0000 |
| 11 | -4.0247 | -3.4966 | -3.1058 | -2.7181 | -2.3281 | -2.2010 | -1.7959 | -1.3634 | -1.0877 | -0.8755 | -0.6974 | -0.5399 | -0.3956 | -0.2596 | -0.1286 | 0.0000 |
| 12 | -3.9296 | -3.4284 | -3.0545 | -2.6810 | -2.3027 | -2.1788 | -1.7823 | -1.3562 | -1.0832 | -0.8726 | -0.6955 | -0.5386 | -0.3947 | -0.2590 | -0.1283 | 0.0000 |
| 13 | -3.8520 | -3.3725 | -3.0123 | -2.6503 | -2.2816 | -2.1604 | -1.7709 | -1.3502 | -1.0795 | -0.8702 | -0.6938 | -0.5375 | -0.3940 | -0.2586 | -0.1281 | 0.0000 |
| 14 | -3.7874 | -3.3257 | -2.9768 | -2.6245 | -2.2638 | -2.1448 | -1.7613 | -1.3450 | -1.0763 | -0.8681 | -0.6924 | -0.5366 | -0.3933 | -0.2582 | -0.1280 | 0.0000 |
| 15 | -3.7328 | -3.2860 | -2.9467 | -2.6025 | -2.2485 | -2.1314 | -1.7531 | -1.3406 | -1.0735 | -0.8662 | -0.6912 | -0.5357 | -0.3928 | -0.2579 | -0.1278 | 0.0000 |
| 16 | -3.6862 | -3.2520 | -2.9208 | -2.5835 | -2.2354 | -2.1199 | -1.7459 | -1.3368 | -1.0711 | -0.8647 | -0.6901 | -0.5350 | -0.3923 | -0.2576 | -0.1277 | 0.0000 |
| 17 | -3.6458 | -3.2224 | -2.8982 | -2.5669 | -2.2238 | -2.1098 | -1.7396 | -1.3334 | -1.0690 | -0.8633 | -0.6892 | -0.5344 | -0.3919 | -0.2573 | -0.1276 | 0.0000 |
| 18 | -3.6105 | -3.1966 | -2.8784 | -2.5524 | -2.2137 | -2.1009 | -1.7341 | -1.3304 | -1.0672 | -0.8620 | -0.6884 | -0.5338 | -0.3915 | -0.2571 | -0.1274 | 0.0000 |
| 19 | -3.5794 | -3.1737 | -2.8609 | -2.5395 | -2.2047 | -2.0930 | -1.7291 | -1.3277 | -1.0655 | -0.8610 | -0.6876 | -0.5333 | -0.3912 | -0.2569 | -0.1274 | 0.0000 |
| 20 | -3.5518 | -3.1534 | -2.8453 | -2.5280 | -2.1967 | -2.0860 | -1.7247 | -1.3253 | -1.0640 | -0.8600 | -0.6870 | -0.5329 | -0.3909 | -0.2567 | -0.1273 | 0.0000 |
| 21 | -3.5272 | -3.1352 | -2.8314 | -2.5176 | -2.1894 | -2.0796 | -1.7207 | -1.3232 | -1.0627 | -0.8591 | -0.6864 | -0.5325 | -0.3906 | -0.2566 | -0.1272 | 0.0000 |
| 22 | -3.5050 | -3.1188 | -2.8188 | -2.5083 | -2.1829 | -2.0739 | -1.7171 | -1.3212 | -1.0614 | -0.8583 | -0.6858 | -0.5321 | -0.3904 | -0.2564 | -0.1271 | 0.0000 |
| 23 | -3.4850 | -3.1040 | -2.8073 | -2.4999 | -2.1770 | -2.0687 | -1.7139 | -1.3195 | -1.0603 | -0.8575 | -0.6853 | -0.5317 | -0.3902 | -0.2563 | -0.1271 | 0.0000 |
| 24 | -3.4668 | -3.0905 | -2.7969 | -2.4922 | -2.1715 | -2.0639 | -1.7109 | -1.3178 | -1.0593 | -0.8569 | -0.6848 | -0.5314 | -0.3900 | -0.2562 | -0.1270 | 0.0000 |
| 25 | -3.4502 | -3.0782 | -2.7874 | -2.4851 | -2.1666 | -2.0595 | -1.7081 | -1.3163 | -1.0584 | -0.8562 | -0.6844 | -0.5312 | -0.3898 | -0.2561 | -0.1269 | 0.0000 |
| 26 | -3.4350 | -3.0669 | -2.7787 | -2.4786 | -2.1620 | -2.0555 | -1.7056 | -1.3150 | -1.0575 | -0.8557 | -0.6840 | -0.5309 | -0.3896 | -0.2560 | -0.1269 | 0.0000 |
| 27 | -3.4210 | -3.0565 | -2.7707 | -2.4727 | -2.1578 | -2.0518 | -1.7033 | -1.3137 | -1.0567 | -0.8551 | -0.6837 | -0.5306 | -0.3894 | -0.2559 | -0.1268 | 0.0000 |
| 28 | -3.4082 | -3.0469 | -2.7633 | -2.4671 | -2.1539 | -2.0484 | -1.7011 | -1.3125 | -1.0560 | -0.8546 | -0.6834 | -0.5304 | -0.3893 | -0.2558 | -0.1268 | 0.0000 |
| 29 | -3.3962 | -3.0380 | -2.7564 | -2.4620 | -2.1503 | -2.0452 | -1.6991 | -1.3114 | -1.0553 | -0.8542 | -0.6830 | -0.5302 | -0.3892 | -0.2557 | -0.1268 | 0.0000 |
| 30 | -3.3852 | -3.0298 | -2.7500 | -2.4573 | -2.1470 | -2.0423 | -1.6973 | -1.3104 | -1.0547 | -0.8538 | -0.6828 | -0.5300 | -0.3890 | -0.2556 | -0.1267 | 0.0000 |
| 40 | -3.3069 | -2.9712 | -2.7045 | -2.4233 | -2.1229 | -2.0211 | -1.6839 | -1.3031 | -1.0500 | -0.8507 | -0.6807 | -0.5286 | -0.3881 | -0.2550 | -0.1265 | 0.0000 |
| 60 | -3.2317 | -2.9146 | -2.6603 | -2.3901 | -2.0994 | -2.0003 | -1.6706 | -1.2958 | -1.0455 | -0.8477 | -0.6786 | -0.5272 | -0.3872 | -0.2545 | -0.1262 | 0.0000 |
| 120 | -3.1595 | -2.8599 | -2.6174 | -2.3578 | -2.0763 | -1.9799 | -1.6577 | -1.2886 | -1.0409 | -0.8446 | -0.6765 | -0.5258 | -0.3862 | -0.2539 | -0.1259 | 0.0000 |
| ##### | -3.0902 | -2.8070 | -2.5758 | -2.3264 | -2.0538 | -1.9600 | -1.6449 | -1.2816 | -1.0364 | -0.8416 | -0.6745 | -0.5244 | -0.3853 | -0.2533 | -0.1257 | 0.0000 |

| Probabilidad acumulada | | | | | | | | | | | | | | | | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| q.l | 0.5000 | 0.5500 | 0.6000 | 0.6500 | 0.7000 | 0.7500 | 0.8000 | 0.8500 | 0.9000 | 0.9500 | 0.9750 | 0.9800 | 0.9900 | 0.9950 | 0.9975 | 0.9990 |
| 1 | 0.0000 | 0.1584 | 0.3249 | 0.5095 | 0.7265 | 1.0000 | 1.3764 | 1.9626 | 3.0777 | 6.3138 | 12.7062 | 15.8945 | 31.8205 | 63.6567 | ##### | ##### |
| 2 | 0.0000 | 0.1421 | 0.2887 | 0.4447 | 0.6172 | 0.8165 | 1.0607 | 1.3862 | 1.8856 | 2.9200 | 4.3027 | 4.8487 | 6.9646 | 9.9248 | 14.0890 | 22.3271 |
| 3 | 0.0000 | 0.1366 | 0.2767 | 0.4242 | 0.5844 | 0.7649 | 0.9785 | 1.2498 | 1.6377 | 2.3534 | 3.1824 | 3.4819 | 4.5407 | 5.8409 | 7.4533 | 10.2145 |
| 4 | 0.0000 | 0.1338 | 0.2707 | 0.4142 | 0.5686 | 0.7407 | 0.9410 | 1.1896 | 1.5332 | 2.1318 | 2.7764 | 2.9985 | 3.7469 | 4.6041 | 5.5976 | 7.1732 |
| 5 | 0.0000 | 0.1322 | 0.2672 | 0.4082 | 0.5594 | 0.7267 | 0.9195 | 1.1558 | 1.4759 | 2.0150 | 2.5706 | 2.7565 | 3.3649 | 4.0321 | 4.7733 | 5.8934 |
| 6 | 0.0000 | 0.1311 | 0.2648 | 0.4043 | 0.5534 | 0.7176 | 0.9057 | 1.1342 | 1.4398 | 1.9432 | 2.4469 | 2.6122 | 3.1427 | 3.7074 | 4.3168 | 5.2076 |
| 7 | 0.0000 | 0.1303 | 0.2632 | 0.4015 | 0.5491 | 0.7111 | 0.8960 | 1.1192 | 1.4149 | 1.8946 | 2.3646 | 2.5168 | 2.9980 | 3.4995 | 4.0293 | 4.7853 |
| 8 | 0.0000 | 0.1297 | 0.2619 | 0.3995 | 0.5459 | 0.7064 | 0.8889 | 1.1081 | 1.3968 | 1.8595 | 2.3060 | 2.4490 | 2.8965 | 3.3554 | 3.8325 | 4.5008 |
| 9 | 0.0000 | 0.1293 | 0.2610 | 0.3979 | 0.5435 | 0.7027 | 0.8834 | 1.0997 | 1.3830 | 1.8331 | 2.2622 | 2.3984 | 2.8214 | 3.2498 | 3.6897 | 4.2968 |
| 10 | 0.0000 | 0.1289 | 0.2602 | 0.3966 | 0.5415 | 0.6998 | 0.8791 | 1.0931 | 1.3722 | 1.8125 | 2.2281 | 2.3593 | 2.7638 | 3.1693 | 3.5814 | 4.1437 |
| 11 | 0.0000 | 0.1286 | 0.2596 | 0.3956 | 0.5399 | 0.6974 | 0.8755 | 1.0877 | 1.3634 | 1.7959 | 2.2010 | 2.3281 | 2.7181 | 3.1058 | 3.4966 | 4.0247 |
| 12 | 0.0000 | 0.1283 | 0.2590 | 0.3947 | 0.5386 | 0.6955 | 0.8726 | 1.0832 | 1.3562 | 1.7823 | 2.1788 | 2.3027 | 2.6810 | 3.0545 | 3.4284 | 3.9296 |
| 13 | 0.0000 | 0.1281 | 0.2586 | 0.3940 | 0.5375 | 0.6938 | 0.8702 | 1.0795 | 1.3502 | 1.7709 | 2.1604 | 2.2816 | 2.6503 | 3.0123 | 3.3725 | 3.8520 |
| 14 | 0.0000 | 0.1280 | 0.2582 | 0.3933 | 0.5366 | 0.6924 | 0.8681 | 1.0763 | 1.3450 | 1.7613 | 2.1448 | 2.2638 | 2.6245 | 2.9768 | 3.3257 | 3.7874 |
| 15 | 0.0000 | 0.1278 | 0.2579 | 0.3928 | 0.5357 | 0.6912 | 0.8662 | 1.0735 | 1.3406 | 1.7531 | 2.1314 | 2.2485 | 2.6025 | 2.9467 | 3.2860 | 3.7328 |
| 16 | 0.0000 | 0.1277 | 0.2576 | 0.3923 | 0.5350 | 0.6901 | 0.8647 | 1.0711 | 1.3368 | 1.7459 | 2.1199 | 2.2354 | 2.5835 | 2.9208 | 3.2520 | 3.6862 |
| 17 | 0.0000 | 0.1276 | 0.2573 | 0.3919 | 0.5344 | 0.6892 | 0.8633 | 1.0690 | 1.3334 | 1.7396 | 2.1098 | 2.2238 | 2.5669 | 2.8982 | 3.2224 | 3.6458 |
| 18 | 0.0000 | 0.1274 | 0.2571 | 0.3915 | 0.5338 | 0.6884 | 0.8620 | 1.0672 | 1.3304 | 1.7341 | 2.1009 | 2.2137 | 2.5524 | 2.8784 | 3.1966 | 3.6105 |
| 19 | 0.0000 | 0.1274 | 0.2569 | 0.3912 | 0.5333 | 0.6876 | 0.8610 | 1.0655 | 1.3277 | 1.7291 | 2.0930 | 2.2047 | 2.5395 | 2.8609 | 3.1737 | 3.5794 |
| 20 | 0.0000 | 0.1273 | 0.2567 | 0.3909 | 0.5329 | 0.6870 | 0.8600 | 1.0640 | 1.3253 | 1.7247 | 2.0860 | 2.1967 | 2.5280 | 2.8453 | 3.1534 | 3.5518 |
| 21 | 0.0000 | 0.1272 | 0.2566 | 0.3906 | 0.5325 | 0.6864 | 0.8591 | 1.0627 | 1.3232 | 1.7207 | 2.0796 | 2.1894 | 2.5176 | 2.8314 | 3.1352 | 3.5272 |
| 22 | 0.0000 | 0.1271 | 0.2564 | 0.3904 | 0.5321 | 0.6858 | 0.8583 | 1.0614 | 1.3212 | 1.7171 | 2.0739 | 2.1829 | 2.5083 | 2.8188 | 3.1188 | 3.5050 |
| 23 | 0.0000 | 0.1271 | 0.2563 | 0.3902 | 0.5317 | 0.6853 | 0.8575 | 1.0603 | 1.3195 | 1.7139 | 2.0687 | 2.1770 | 2.4999 | 2.8073 | 3.1040 | 3.4850 |
| 24 | 0.0000 | 0.1270 | 0.2562 | 0.3900 | 0.5314 | 0.6848 | 0.8569 | 1.0593 | 1.3178 | 1.7109 | 2.0639 | 2.1715 | 2.4922 | 2.7969 | 3.0905 | 3.4668 |
| 25 | 0.0000 | 0.1269 | 0.2561 | 0.3898 | 0.5312 | 0.6844 | 0.8562 | 1.0584 | 1.3163 | 1.7081 | 2.0595 | 2.1666 | 2.4851 | 2.7874 | 3.0782 | 3.4502 |
| 26 | 0.0000 | 0.1269 | 0.2560 | 0.3896 | 0.5309 | 0.6840 | 0.8557 | 1.0575 | 1.3150 | 1.7056 | 2.0555 | 2.1620 | 2.4786 | 2.7787 | 3.0669 | 3.4350 |
| 27 | 0.0000 | 0.1268 | 0.2559 | 0.3894 | 0.5306 | 0.6837 | 0.8551 | 1.0567 | 1.3137 | 1.7033 | 2.0518 | 2.1578 | 2.4727 | 2.7707 | 3.0565 | 3.4210 |
| 28 | 0.0000 | 0.1268 | 0.2558 | 0.3893 | 0.5304 | 0.6834 | 0.8546 | 1.0560 | 1.3125 | 1.7011 | 2.0484 | 2.1539 | 2.4671 | 2.7633 | 3.0469 | 3.4082 |
| 29 | 0.0000 | 0.1268 | 0.2557 | 0.3892 | 0.5302 | 0.6830 | 0.8542 | 1.0553 | 1.3114 | 1.6991 | 2.0452 | 2.1503 | 2.4620 | 2.7564 | 3.0380 | 3.3962 |
| 30 | 0.0000 | 0.1267 | 0.2556 | 0.3890 | 0.5300 | 0.6828 | 0.8538 | 1.0547 | 1.3104 | 1.6973 | 2.0423 | 2.1470 | 2.4573 | 2.7500 | 3.0298 | 3.3852 |
| 40 | 0.0000 | 0.1265 | 0.2550 | 0.3881 | 0.5286 | 0.6807 | 0.8507 | 1.0500 | 1.3031 | 1.6839 | 2.0211 | 2.1229 | 2.4233 | 2.7045 | 2.9712 | 3.3069 |
| 60 | 0.0000 | 0.1262 | 0.2545 | 0.3872 | 0.5272 | 0.6786 | 0.8477 | 1.0455 | 1.2958 | 1.6706 | 2.0003 | 2.0994 | 2.3901 | 2.6603 | 2.9146 | 3.2317 |
| 120 | 0.0000 | 0.1259 | 0.2539 | 0.3862 | 0.5258 | 0.6765 | 0.8446 | 1.0409 | 1.2886 | 1.6577 | 1.9799 | 2.0763 | 2.3578 | 2.6174 | 2.8599 | 3.1595 |
| ##### | 0.0000 | 0.1257 | 0.2533 | 0.3853 | 0.5244 | 0.6745 | 0.8416 | 1.0364 | 1.2816 | 1.6449 | 1.9600 | 2.0538 | 2.3264 | 2.5758 | 2.8070 | 3.0902 |

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