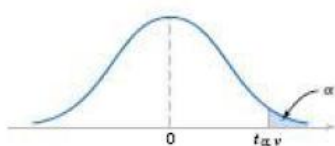


2. Studentova (t razdioba)

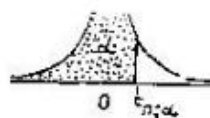


| $\alpha \backslash v$ | .40 | .25 | .10 | .05 | .025 | .01 | .005 | .0025 | .001 | .0005 |
|-----------------------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 1 | .325 | 1.000 | 3.078 | 6.314 | 12.706 | 31.821 | 63.657 | 127.32 | 318.31 | 636.62 |
| 2 | .289 | .816 | 1.886 | 2.920 | 4.303 | 6.965 | 9.925 | 14.089 | 23.326 | 31.598 |
| 3 | .277 | .765 | 1.638 | 2.353 | 3.182 | 4.541 | 5.841 | 7.453 | 10.213 | 12.924 |
| 4 | .271 | .741 | 1.533 | 2.132 | 2.776 | 3.747 | 4.604 | 5.598 | 7.173 | 8.610 |
| 5 | .267 | .727 | 1.476 | 2.015 | 2.571 | 3.365 | 4.032 | 4.773 | 5.893 | 6.869 |
| 6 | .265 | .718 | 1.440 | 1.943 | 2.447 | 3.143 | 3.707 | 4.317 | 5.208 | 5.959 |
| 7 | .263 | .711 | 1.415 | 1.895 | 2.365 | 2.998 | 3.499 | 4.029 | 4.785 | 5.408 |
| 8 | .262 | .706 | 1.397 | 1.860 | 2.306 | 2.896 | 3.355 | 3.833 | 4.501 | 5.041 |
| 9 | .261 | .703 | 1.383 | 1.833 | 2.262 | 2.821 | 3.250 | 3.690 | 4.297 | 4.781 |
| 10 | .260 | .700 | 1.372 | 1.812 | 2.228 | 2.764 | 3.169 | 3.581 | 4.144 | 4.587 |
| 11 | .260 | .697 | 1.363 | 1.796 | 2.201 | 2.718 | 3.106 | 3.497 | 4.025 | 4.437 |
| 12 | .259 | .695 | 1.356 | 1.782 | 2.179 | 2.681 | 3.055 | 3.428 | 3.930 | 4.318 |
| 13 | .259 | .694 | 1.350 | 1.771 | 2.160 | 2.650 | 3.012 | 3.372 | 3.852 | 4.221 |
| 14 | .258 | .692 | 1.345 | 1.761 | 2.145 | 2.624 | 2.977 | 3.326 | 3.787 | 4.140 |

t - raspodela

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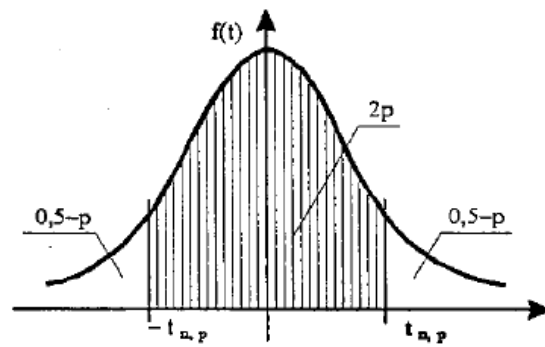
$$\lg_{10} 0.995 = 2,321$$



| $\alpha \backslash n$ | 0.600 | 0.700 | 0.750 | 0.800 | 0.850 | 0.900 | 0.925 | 0.950 | 0.975 | 0.990 | 0.995 | 0.999 | .9995 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 0.325 | 0.727 | 1.000 | 1.376 | 1.963 | 3.078 | 4.165 | 6.314 | 12.71 | 31.82 | 63.66 | 318.3 | 636.6 |
| 2 | 0.289 | 0.517 | 0.816 | 1.061 | 1.386 | 1.886 | 2.282 | 2.920 | 4.303 | 6.965 | 9.925 | 22.33 | 31.60 |
| 3 | 0.277 | 0.584 | 0.765 | 0.978 | 1.250 | 1.638 | 1.924 | 2.353 | 3.182 | 4.541 | 5.841 | 10.21 | 12.92 |
| 4 | 0.271 | 0.569 | 0.741 | 0.941 | 1.190 | 1.533 | 1.778 | 2.132 | 2.776 | 3.747 | 4.604 | 7.173 | 8.610 |
| 5 | 0.267 | 0.559 | 0.727 | 0.920 | 1.156 | 1.476 | 1.699 | 2.015 | 2.571 | 3.365 | 4.032 | 5.893 | 6.869 |
| 6 | 0.265 | 0.553 | 0.718 | 0.906 | 1.134 | 1.440 | 1.650 | 1.943 | 2.447 | 3.143 | 3.707 | 5.208 | 5.959 |
| 7 | 0.263 | 0.549 | 0.711 | 0.896 | 1.119 | 1.415 | 1.617 | 1.895 | 2.365 | 2.998 | 3.499 | 4.785 | 5.408 |
| 8 | 0.262 | 0.546 | 0.706 | 0.889 | 1.108 | 1.397 | 1.592 | 1.860 | 2.306 | 2.896 | 3.355 | 4.501 | 5.041 |
| 9 | 0.261 | 0.543 | 0.703 | 0.883 | 1.100 | 1.383 | 1.574 | 1.833 | 2.262 | 2.821 | 3.250 | 4.297 | 4.781 |
| 10 | 0.260 | 0.542 | 0.700 | 0.879 | 1.093 | 1.372 | 1.559 | 1.812 | 2.228 | 2.764 | 3.169 | 4.144 | 4.587 |
| 11 | 0.260 | 0.540 | 0.697 | 0.876 | 1.088 | 1.363 | 1.548 | 1.796 | 2.201 | 2.718 | 3.106 | 4.025 | 4.437 |
| 12 | 0.259 | 0.539 | 0.695 | 0.873 | 1.083 | 1.356 | 1.538 | 1.782 | 2.179 | 2.681 | 3.055 | 3.930 | 4.318 |

2. Studentova raspodela

$$P\{|t_n| < t_{n,p}\} = 2p$$

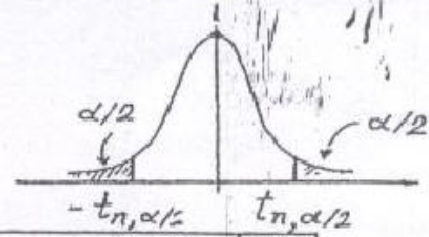


| np | 0.100 | 0.200 | 0.300 | 0.400 | 0.450 | 0.475 | 0.490 | 0.495 |
|------|-------|-------|-------|-------|-------|--------|--------|--------|
| 1 | .325 | .727 | 1.376 | 3.078 | 6.314 | 12.706 | 31.821 | 63.657 |
| 2 | .289 | .617 | 1.061 | 1.886 | 2.920 | 4.303 | 6.965 | 9.925 |
| 3 | .277 | .584 | .978 | 1.638 | 2.353 | 3.182 | 4.541 | 5.841 |
| 4 | .271 | .569 | .941 | 1.533 | 2.132 | 2.776 | 3.747 | 4.604 |
| 5 | .267 | .559 | .920 | 1.476 | 2.015 | 2.571 | 3.365 | 4.032 |
| 6 | .265 | .553 | .906 | 1.440 | 1.943 | 2.447 | 3.143 | 3.707 |
| 7 | .263 | .549 | .896 | 1.415 | 1.895 | 2.365 | 2.998 | 3.499 |
| 8 | .262 | .546 | .889 | 1.397 | 1.860 | 2.306 | 2.896 | 3.355 |

C) Studentova raspodjela: $\int_0^{v_{n,\alpha}} v_n(x) dx = \alpha$.

| n | 0,10 | 0,20 | 0,30 | 0,40 | 0,45 | 0,475 | 0,49 | 0,495 |
|-----|-------|-------|-------|-------|-------|--------|--------|--------|
| 1 | 0,325 | 0,727 | 1,376 | 3,078 | 6,314 | 12,706 | 31,823 | 63,657 |
| 2 | 0,289 | 0,617 | 1,061 | 1,886 | 2,920 | 4,403 | 6,965 | 9,925 |
| 3 | 0,277 | 0,584 | 0,978 | 1,638 | 2,353 | 3,182 | 4,531 | 5,841 |
| 4 | 0,271 | 0,569 | 0,941 | 1,533 | 2,132 | 2,776 | 3,747 | 4,604 |
| 5 | 0,267 | 0,559 | 0,920 | 1,476 | 2,015 | 2,571 | 3,365 | 4,032 |
| 6 | 0,265 | 0,553 | 0,906 | 1,440 | 1,943 | 2,447 | 3,143 | 3,707 |
| 7 | 0,263 | 0,549 | 0,896 | 1,415 | 1,895 | 2,365 | 2,998 | 3,499 |
| 8 | 0,262 | 0,546 | 0,889 | 1,397 | 1,860 | 2,306 | 2,896 | 3,355 |
| 9 | 0,261 | 0,543 | 0,883 | 1,383 | 1,833 | 2,262 | 2,821 | 3,250 |

Tablica 2. Studentova t - raspodela



| $n \backslash \alpha$ | 0,9 | 0,8 | 0,7 | 0,6 | 0,5 | 0,4 | 0,3 | 0,2 | 0,1 | 0,05 | 0,02 | 0,01 | 0,001 | α/n |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|---------|------------|
| 1 | 0,158 | 0,325 | 0,510 | 0,727 | 1,000 | 1,376 | 1,963 | 3,078 | 6,314 | 12,706 | 31,821 | 63,657 | 636,619 | 1 |
| 2 | 0,142 | 0,289 | 0,445 | 0,617 | 0,816 | 1,061 | 1,386 | 1,886 | 2,920 | 4,303 | 6,965 | 9,925 | 31,598 | 2 |
| 3 | 0,137 | 0,277 | 0,424 | 0,584 | 0,765 | 0,978 | 1,250 | 1,638 | 2,353 | 3,182 | 4,541 | 5,841 | 12,941 | 3 |
| 4 | 0,134 | 0,271 | 0,414 | 0,569 | 0,741 | 0,941 | 1,190 | 1,533 | 2,132 | 2,776 | 3,747 | 4,604 | 8,610 | 4 |
| 5 | 0,132 | 0,267 | 0,408 | 0,559 | 0,727 | 0,920 | 1,156 | 1,476 | 2,015 | 2,571 | 3,365 | 4,032 | 6,859 | 5 |
| 6 | 0,131 | 0,265 | 0,404 | 0,553 | 0,718 | 0,906 | 1,134 | 1,440 | 1,943 | 2,447 | 3,143 | 3,707 | 5,959 | 6 |
| 7 | 0,130 | 0,263 | 0,402 | 0,549 | 0,711 | 0,896 | 1,119 | 1,415 | 1,895 | 2,365 | 2,998 | 3,499 | 5,403 | 7 |
| 8 | 0,130 | 0,262 | 0,399 | 0,546 | 0,706 | 0,889 | 1,108 | 1,397 | 1,860 | 2,306 | 2,896 | 3,355 | 5,041 | 8 |
| 9 | 0,129 | 0,261 | 0,398 | 0,543 | 0,703 | 0,883 | 1,100 | 1,383 | 1,833 | 2,262 | 2,821 | 3,250 | 4,781 | 9 |
| 10 | 0,129 | 0,260 | 0,397 | 0,542 | 0,700 | 0,879 | 1,093 | 1,372 | 1,812 | 2,228 | 2,764 | 3,169 | 4,587 | 10 |

Tablica 6. t_n -Studentova raspodela: $P[|t_n| > \epsilon] = p$

| n | $p=0,9$ | 0,8 | 0,7 | 0,6 | 0,5 | 0,4 | 0,3 | 0,2 | 0,1 | 0,05 | 0,02 | 0,01 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1 | 0,158 | 0,325 | 0,510 | 0,727 | 1,000 | 1,376 | 1,963 | 3,078 | 6,314 | 12,706 | 31,821 | 63,657 |
| 2 | 0,142 | 0,289 | 0,445 | 0,617 | 0,816 | 1,061 | 1,386 | 1,886 | 2,920 | 4,303 | 6,965 | 9,925 |
| 3 | 0,137 | 0,277 | 0,424 | 0,584 | 0,765 | 0,978 | 1,250 | 1,638 | 2,353 | 3,182 | 4,541 | 5,841 |
| 4 | 0,134 | 0,271 | 0,414 | 0,569 | 0,741 | 0,941 | 1,190 | 1,533 | 2,132 | 2,776 | 3,747 | 4,604 |
| 5 | 0,132 | 0,267 | 0,408 | 0,559 | 0,727 | 0,920 | 1,156 | 1,476 | 2,015 | 2,571 | 3,365 | 4,032 |
| 6 | 0,131 | 0,265 | 0,404 | 0,553 | 0,718 | 0,906 | 1,134 | 1,440 | 1,943 | 2,447 | 3,143 | 3,707 |
| 7 | 0,130 | 0,263 | 0,402 | 0,549 | 0,711 | 0,896 | 1,119 | 1,415 | 1,895 | 2,365 | 2,998 | 3,499 |
| 8 | 0,130 | 0,262 | 0,399 | 0,546 | 0,706 | 0,889 | 1,108 | 1,397 | 1,860 | 2,306 | 2,896 | 3,355 |
| 9 | 0,129 | 0,261 | 0,398 | 0,543 | 0,703 | 0,883 | 1,100 | 1,383 | 1,833 | 2,262 | 2,821 | 3,250 |
| 10 | 0,129 | 0,260 | 0,397 | 0,542 | 0,700 | 0,879 | 1,093 | 1,372 | 1,812 | 2,228 | 2,764 | 3,169 |
| 11 | 0,129 | 0,260 | 0,396 | 0,540 | 0,697 | 0,876 | 1,088 | 1,363 | 1,796 | 2,201 | 2,718 | 3,106 |
| 12 | 0,128 | 0,259 | 0,395 | 0,539 | 0,695 | 0,873 | 1,083 | 1,356 | 1,782 | 2,179 | 2,681 | 3,055 |
| 13 | 0,128 | 0,259 | 0,394 | 0,538 | 0,694 | 0,870 | 1,079 | 1,350 | 1,771 | 2,160 | 2,650 | 3,012 |
| 14 | 0,128 | 0,258 | 0,393 | 0,537 | 0,692 | 0,868 | 1,076 | 1,345 | 1,761 | 2,145 | 2,624 | 2,977 |
| 15 | 0,128 | 0,258 | 0,393 | 0,536 | 0,691 | 0,866 | 1,074 | 1,341 | 1,753 | 2,131 | 2,602 | 2,947 |
| 16 | 0,128 | 0,258 | 0,392 | 0,535 | 0,690 | 0,865 | 1,071 | 1,337 | 1,746 | 2,120 | 2,583 | 2,921 |
| 17 | 0,128 | 0,257 | 0,392 | 0,534 | 0,689 | 0,863 | 1,069 | 1,333 | 1,740 | 2,110 | 2,567 | 2,898 |
| 18 | 0,127 | 0,257 | 0,392 | 0,534 | 0,688 | 0,862 | 1,067 | 1,330 | 1,734 | 2,101 | 2,552 | 2,878 |
| 19 | 0,127 | 0,257 | 0,391 | 0,533 | 0,688 | 0,861 | 1,066 | 1,328 | 1,729 | 2,093 | 2,539 | 2,861 |
| 20 | 0,127 | 0,257 | 0,391 | 0,533 | 0,687 | 0,860 | 1,064 | 1,325 | 1,725 | 2,086 | 2,528 | 2,845 |
| 21 | 0,127 | 0,257 | 0,391 | 0,532 | 0,686 | 0,859 | 1,063 | 1,323 | 1,721 | 2,080 | 2,518 | 2,831 |
| 22 | 0,127 | 0,256 | 0,390 | 0,532 | 0,686 | 0,858 | 1,061 | 1,321 | 1,717 | 2,074 | 2,508 | 2,819 |
| 23 | 0,127 | 0,256 | 0,390 | 0,532 | 0,685 | 0,858 | 1,060 | 1,319 | 1,714 | 2,069 | 2,500 | 2,807 |
| 24 | 0,127 | 0,256 | 0,390 | 0,531 | 0,685 | 0,857 | 1,059 | 1,318 | 1,711 | 2,064 | 2,492 | 2,797 |
| 25 | 0,127 | 0,256 | 0,390 | 0,531 | 0,684 | 0,856 | 1,058 | 1,316 | 1,708 | 2,060 | 2,485 | 2,787 |
| 26 | 0,127 | 0,256 | 0,390 | 0,531 | 0,684 | 0,856 | 1,058 | 1,315 | 1,706 | 2,056 | 2,479 | 2,779 |
| 27 | 0,127 | 0,256 | 0,389 | 0,531 | 0,684 | 0,855 | 1,057 | 1,314 | 1,703 | 2,052 | 2,473 | 2,771 |
| 28 | 0,127 | 0,256 | 0,389 | 0,530 | 0,683 | 0,855 | 1,056 | 1,313 | 1,701 | 2,048 | 2,467 | 2,763 |
| 29 | 0,127 | 0,256 | 0,389 | 0,530 | 0,683 | 0,854 | 1,055 | 1,311 | 1,699 | 2,045 | 2,462 | 2,756 |
| 30 | 0,127 | 0,256 | 0,389 | 0,530 | 0,683 | 0,854 | 1,055 | 1,310 | 1,697 | 2,042 | 2,457 | 2,750 |
| ∞ | 0,12566 | 0,25335 | 0,38535 | 0,52440 | 0,67449 | 0,84162 | 1,03643 | 1,28155 | 1,64485 | 1,95996 | 2,32634 | 2,56582 |