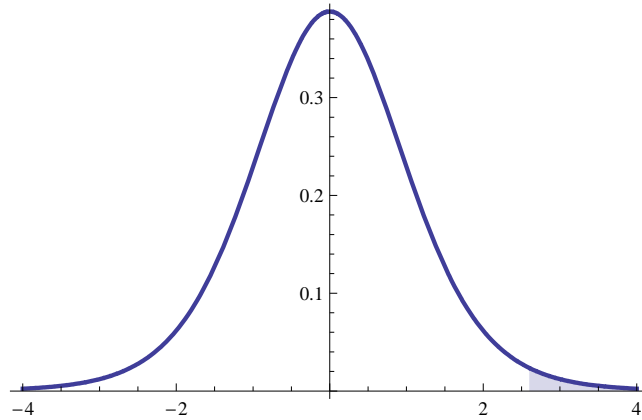


Homework Solutions

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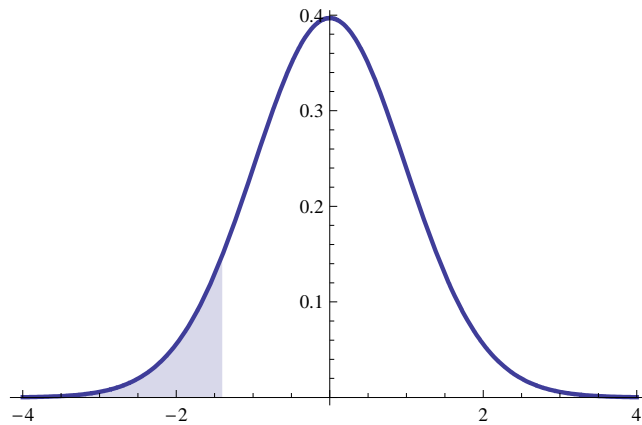
Exercise 7

(a) The distribution is t_9 (9 degrees of freedom). The shape is



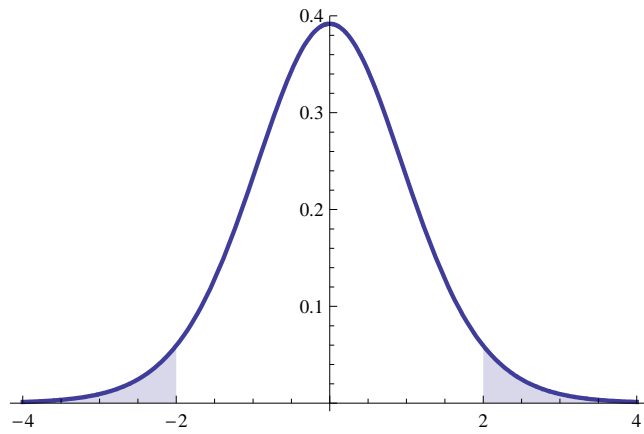
The p -value is $\text{tcdf}(2.6, \text{E99}, 9) = 0.01437$.

(b) The distribution is t_{49} (49 degrees of freedom). The shape is



The p -value is $\text{tcdf}(-\text{E99}, -1.4, 49) = 0.11795$.

(c) The distribution is t_{14} (14 degrees of freedom). The shape is



The p -value is $2 \times \text{tcdf}(-E99, -2.0, 14) = 0.06529$.