5.7-1 Let $T$ have a t distribution with $r$ degrees of freedom. Find
(a) $P[ T \geq 2.228 ]$ when $r = 10.$
(b) $P[ T \leq 2.228 ]$ when $r = 10.$
(c) $P[ |T| \geq 2.228 ]$ when $r = 10.$
(d) $P[ -1.753 \leq T \leq 2.602 ]$ when $r = 15.$
(e) $P[ 1.33 \leq T \leq 2.552 ]$ when $r = 18.$

5.7-2 Let $T$ have a t distribution with $r = 19.$ Find $c$ such that
(a) $P[ |T| \geq c ] = 0.05.$
(b) $P[ |T| \geq c ] = 0.01.$
(c) $P[ T \geq c ] = 0.025.$
(d) $P[ |T| \leq c ] = 0.95.$

5.7-8 Find
(a) $F_{0.05}(5,9) = F_{5,9,05}$
(b) $F_{0.025}(9,7) = F_{9,7,025}$
(a) $F_{0.99}(8,5) = F_{8,5,99}$
(a) $F_{0.95}(5,7) = F_{5,7,95}$