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name: _	Lolutian

1 (12 points). The one-sample t statistics for testing

$$H_o: \mu = 8$$

$$H_a: \mu > 8$$

from a sample of n = 22 observations has the value t = 2.24.

- (a) What are the degress of freedom from the statistic?
- (b) Give the two critical values t^* from the t-distribution table that fall on either side of t.
- (c) Between what two values does the P-value of the test fall?
- (d) Is the value t = 2.24 significant at the 5% level? At the 1% level?

a) 21

b) 0.025 \ \ 0.1 2.080 \ \ 2.518

c) 0.025 É 0.01

be is 0.017, so it's significant at $\alpha = 0.05$.

The P-walne is larger than 0.01

No t = 2.24 is not significant at d = 0.01.