Biology 4605/7220	)
Quiz #10b	

Name Key
19 November 2003

- 1 State whether correlation or regression is appropriate for the following studies.
- **a** An investigation of fish growth in relation to food type.

regression

- **b** An investigation of phosphorus and nitrate content of 15 different soils. <u>correlation</u>
- **c** An investigation of drilling mud contaminants (barium) in marine sediments, in relation to distance from a 40 well offshore oil rig.

regression

**d** An investigation of ice cover and fish catch in 5 different lakes.

correlation

2. Compute a t-statistic for a correlation coefficient of r = 0.25, with a sample size of 10.

r	n	rsquared	s_r	t = r/s_r
0.65	15	0.4225	0.210768	3.083962
0.35	9	0.1225	0.354058	0.988538
0.25	10	0.0625	0.342327	0.730297