1. Stebbins (1950 Table 9) reported data from Reid and Reid (1915) on extinction rates in woody and herbaceous species of the early Pliocene in Northwestern Europe.

		Woody	Herbaceous	
	•	Nspecies	Nspecies	•
Modern species	N_s	25	31	
Modern genera	N_g	56	70	
Unidentified	$N_{_}unid$	13	22	
	Total	94	123	

Calculate

a.	Proportion of all	Woody plants	that belong to	modern species.	$p_W = $	[1]
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Proportion of all Herbaceous plants that belong to modern species. $p_H =$ ____[1]

Odds of extinction of modern species where Odds_
$$W = p_W / (1 - p_W)$$

$$Odds_W = \underline{\hspace{1cm}} [1]$$

Odds
$$_H = ___[1]$$

Odds ratio:
$$OR = (Odds_W) / (Odd_H)$$

b. Mean extinction rate of modern species
$$N_s$$
.

$$mean(N_s) = ___[1]$$

$$CV$$
= st.deviation/mean $CV(N_s) = 0.152$

$$st.deviation(N_s) =$$
____[1]

$$t = (\text{mean - } \mu) / \text{st.deviation}$$

If
$$\mu = 0$$
, calculate t _____[1]

2.
$$1 \text{ acre} = 1 \text{ rod } X 1 \text{ furlong}$$

$$1 \text{ rod} = 22 \text{ yards}$$

$$1 \text{ furlong} = 220 \text{ yards}$$

m = 1.098 yards

$$0.248 \text{ acres} = ____ \text{yards}^2 [1]$$

show your work [2]

$$0.248 \text{ acres} = \underline{\qquad} m^2 [1]$$

show your work [2]