



So C=1,
$$b=-\frac{75}{6}=\frac{5}{2}$$
 and Cather some arithmetal, $\alpha=-1$.

$$9(\pi)=-\pi^2-\frac{5}{2}\pi+1$$

10) Studies show that ave. surface kmp 35 can be modeled by

T=002++8.50

where TB temp in and t is the number of years since 1900.

a) The slope represents the rate of change of temperature with respect to time.

The T intercept is what the model predicts for the are sinface temp in 1900

b) In 2100, t=200, so

T= 0.02.200+8.5 = 12.5°C