Formulating and Solving Linear Equations

In 1990 Florida's population was approximately 12,940,000. In 1995 Florida's population was approximately 14,930,000. Assuming that Florida's population was growing in approximately a linear manner between 1990 and 2005 write a linear equation for the relationship between Florida's population and time.

	Florida's Population				
Δt	**Year**	**Years Since 1990** **t**	**Population (millions)** **P(t)**	**ΔP(t)**	**ΔP(t)/ Δt**
	1990		12.94		
	1995		14.93		
	2000				

Show how to use your linear equation to estimate Florida's population in the year 2000.

Show how to use your linear equation to estimate when Florida's population will reach 20,000,000 and when it will reach 25,000,000.