

**QUESTION 1**

Estimate a regression model for the following data. Report the results.

Year	Rate
1980	10.00
1981	10.00
1982	10.00
1983	10.00
1984	10.00
1985	10.00
1986	10.00
1987	10.00
1988	10.00
1989	10.00
1990	10.00
1991	10.00
1992	10.00
1993	10.00
1994	10.00
1995	10.00
1996	10.00
1997	10.00
1998	10.00
1999	10.00
2000	10.00
2001	10.00
2002	10.00
2003	10.00
2004	10.00
2005	10.00
2006	10.00
2007	10.00
2008	10.00
2009	10.00
2010	10.00
2011	10.00
2012	10.00
2013	10.00
2014	10.00
2015	10.00
2016	10.00
2017	10.00
2018	10.00
2019	10.00
2020	10.00
2021	10.00
2022	10.00
2023	10.00
2024	10.00
2025	10.00
2026	10.00
2027	10.00
2028	10.00
2029	10.00
2030	10.00

**QUESTION 2**

Use the following data:

Estimate a regression model for the following data. Report the results.

Year	Rate
1980	10.00
1981	10.00
1982	10.00
1983	10.00
1984	10.00
1985	10.00
1986	10.00
1987	10.00
1988	10.00
1989	10.00
1990	10.00
1991	10.00
1992	10.00
1993	10.00
1994	10.00
1995	10.00
1996	10.00
1997	10.00
1998	10.00
1999	10.00
2000	10.00
2001	10.00
2002	10.00
2003	10.00
2004	10.00
2005	10.00
2006	10.00
2007	10.00
2008	10.00
2009	10.00
2010	10.00
2011	10.00
2012	10.00
2013	10.00
2014	10.00
2015	10.00
2016	10.00
2017	10.00
2018	10.00
2019	10.00
2020	10.00
2021	10.00
2022	10.00
2023	10.00
2024	10.00
2025	10.00
2026	10.00
2027	10.00
2028	10.00
2029	10.00
2030	10.00