The average size of a US farm between 1945 and 1995 can be modeled by the cubic function

\[ F(x) = -0.00285x^3 + 0.536x^2 - 25.946x + 533.050 \] acres \( x \) years after 1900.

(a) What was the average size of a US farm in 1965?

(b) How rapidly was the average size changing in 1965?

(c) Find the percentage rate of change of the average farm size in 1965, and explain what it means in context.