GROUP WORK 2, SECTION 3.8 Nobody Escapes the Cube

We are designing a computer graphic in which we zoom in on a cube. The volume V, surface area S, and side length x of the cube are all varying with respect to time. With this information, compute the following quantities, using the steps described in the text:

1. dS/dt when x = 2 inches and dV/dt = 1 in³/s.

2. dV/dt when x = 2 inches and dS/dt = 1 in²/s.