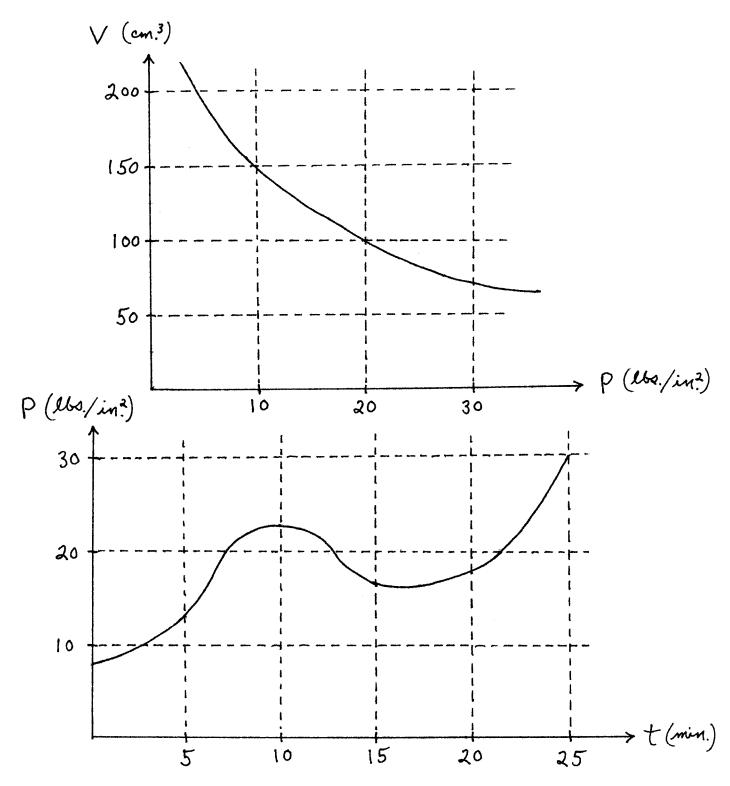
A Practical Example of Functional Composition

According to Boyle's Law, at a constant temperature the volume V occupied by a fixed quantity of gas is inversely proportional to the applied pressure P. Assume that for a particular sample we have the following experimental relationships between volume V (cm.<sup>3</sup>) and pressure P (lbs./in.<sup>2</sup>) as well as between pressure P (lbs./in.<sup>2</sup>) and time t (min.).



Use the grapical information on the previous page to sketch the relationship between volume V and time t. (Note that this will represent the graph of the functional composition V = f(P) = f(g(t)).)

