## Practice Questions

1. What functions y(t) have the constant derivative s(t) = 7? 2. What is the area from 0 to t under the graph of s(t) = 7? 3. From t = 0 to 2, find the integral  $\int_0^2 7 dt =$ \_\_\_\_\_. 4. What function y(t) has the derivative s(t) = 7 + 6t? 5. From t = 0 to 2, find area = integral  $\int_0^2 (7 + 6t) dt$ . 6. At this instant t = 2, what is  $\frac{d(\text{area})}{dt}$ ?



Resource: Highlights of Calculus Gilbert Strang

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