## **13D Definite Integrals**

1. *Find*: 
$$\int_{1}^{2} 3x^{2} dx$$

2. Evaluate: 
$$\int_0^1 (x^{\frac{1}{3}} - 1)^2 dx$$

3. Given that *P* is a constant and  $\int_{1}^{5} (2Px + 7) dx = 4P^2$ , show that there are two possible values for P, and find what they are.