According to this list, the integral of $x^m dx$ is $\frac{x^{m+1}}{m+1}$

So if we take the integral rule stated above and apply it to $\int 5x^2$, then we get:

$$\int 5x^2 dx$$

$$= (5) \int x^2 dx$$

$$= (5) \frac{x^{2+1}}{2+1}$$

$$= \frac{5x^3}{3}$$

Now, evaluate the integral [1,2] via substitution.

$$\frac{5(2)^3}{3} - \frac{5(1)^3}{3}$$

$$= 11.7$$

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