

5. (a) $\int_0^1 x^2 dx = \frac{1}{3}$ and $\int_0^1 x^3 dx = \frac{1}{4}$.
Use these to find $\int_0^1 x^4 dx$.

(b) $\int_0^1 x^2 dx = \frac{1}{3}$ and $\int_0^1 x^3 dx = \frac{1}{4}$.
Use these to find $\int_0^1 x^4 dx$.

6. (a) $\int_0^1 x^2 dx = \frac{1}{3}$ and $\int_0^1 x^3 dx = \frac{1}{4}$.
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(b) $\int_0^1 x^2 dx = \frac{1}{3}$ and $\int_0^1 x^3 dx = \frac{1}{4}$.
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(c) $\int_0^1 x^2 dx = \frac{1}{3}$ and $\int_0^1 x^3 dx = \frac{1}{4}$.
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