

PROBLEM 10.1 (10 points)

(a) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$.

(b) Find the volume of the solid obtained by revolving the curve $y = \cos(x)$ about the y -axis for $0 \leq x \leq \pi/2$.

(c) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts.

$$\int_0^1 x^2 \cos(x) dx = \left[\frac{x^2 \sin(x)}{1} - \int 2x \sin(x) dx \right]_0^1$$

(d) Use integration by parts to compute the definite integral $\int_0^1 x^2 \cos(x) dx$. Show that the result is the same as in (c).

(e) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts.

(f) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts. Show that the result is the same as in (c).

$$\int_0^1 x^2 \cos(x) dx = \left[\frac{x^2 \sin(x)}{1} - \int 2x \sin(x) dx \right]_0^1$$

(g) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts.

$$\int_0^1 x^2 \cos(x) dx = \left[\frac{x^2 \sin(x)}{1} - \int 2x \sin(x) dx \right]_0^1$$

(h) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts. Show that the result is the same as in (c).

(i) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts. Show that the result is the same as in (c).

$$\int_0^1 x^2 \cos(x) dx = \left[\frac{x^2 \sin(x)}{1} - \int 2x \sin(x) dx \right]_0^1$$

(j) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts.

$$\int_0^1 x^2 \cos(x) dx = \left[\frac{x^2 \sin(x)}{1} - \int 2x \sin(x) dx \right]_0^1$$

(k) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts.

(l) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts. Show that the result is the same as in (c).

(m) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts. Show that the result is the same as in (c).

$$\int_0^1 x^2 \cos(x) dx = \left[\frac{x^2 \sin(x)}{1} - \int 2x \sin(x) dx \right]_0^1$$

(n) Compute the definite integral $\int_0^1 x^2 \cos(x) dx$ using integration by parts. Show that the result is the same as in (c).

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Ensheng Dong



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