

## Page 460 Example 23

### Evaluating integrals

TI-84 Plus

$$\int_0^{\pi} (x + \sin(2x)) dx$$

4.934802201

$$\frac{\pi^2}{2}$$

4.934802201

$$\int_0^{\frac{\pi}{2}} (e^{2x} + \cos(3x)) dx$$

10.73701298

$$\frac{1}{2}e^{\pi} - \frac{5}{6}$$

10.73701298

Casio fx-9860GII

$$\int_0^{\pi} x + \sin 2x dx$$

4.934802201

$\int dx$   $\Sigma()$   $\sqrt{\square}$

$$\frac{\pi^2}{2}$$

4.934802201

$\int dx$   $\Sigma()$   $\sqrt{\square}$

$$\int_0^{\frac{\pi}{2}} e^{2x} + \cos 3x dx$$

10.73701298

$\int dx$   $\Sigma()$   $\sqrt{\square}$

$$\frac{1}{2}e^{\pi} - \frac{5}{6}$$

10.73701298

$\int dx$   $\Sigma()$   $\sqrt{\square}$

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$$\int_{-\frac{5\pi}{2}}^{\frac{5\pi}{2}} \left( 1 - \frac{1}{5 \left( \cos \left( \frac{x}{10} \right) \right)^2} \right) dx$$

11.70796327

$5\pi-4$

11.70796327

$$\int_{-\frac{5\pi}{2}}^{\frac{5\pi}{2}} 1 - \frac{1}{5 \left( \cos \frac{x}{10} \right)^2} dx$$

11.70796327

$\int dx$   $\Sigma$   $\sqrt{\phantom{x}}$

$5\pi-4$

11.70796327

$\square$

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