



6-1 Area between curve

1- Find the area between the curves on the given interval.

$$y = x^3, y = x^2 - 1, \quad 1 \leq x \leq 3$$

- A- 13.33
- B- 6.67
- C- 40
- D- 20

2- Find the area between the curves on the given interval.

$$y = \cos x, y = x^2 + 2, \quad 0 \leq x \leq 2$$

- A- $20 - 3\sin 2$
- B- $\frac{20}{3} - \sin 2$
- C- $\frac{8}{3} - \sin 2$
- D- $20 - \sin 2$

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3- Find the area between the curves on the given interval.

$$y = e^x, y = x - 1, \quad -2 \leq x \leq 0$$

- A- $5 - e^1$
- B- $5 - e^{-1}$
- C- $5 - e^{-2}$
- D- $5 - e^2$

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4- Find the area of the region determined by the intersections of the curves.

$$y = x^2 - 1, \quad y = 7 - x^2$$

- A- 22.33
- B- 22
- C- 21
- D- 21.33



5- Find the area of the region determined by the intersections of the curves.

$$y = x^3, \quad y = 3x + 2$$

- A- 6.75
- B- 6.6
- C- 7.12
- D- 6.85

6- Find the area of the region determined by the intersections of the curves.

$$y = x^2, \quad y = \sqrt{x}$$

- A- 0.33
- B- 1.33
- C- 3
- D- 1

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7- Find the area of the region determined by the intersections of the curves.

$$y = x, \quad y = \frac{5x}{x^2 + 1}$$

- A- 4.1
- B- 4.05
- C- 6.6
- D- 6.7

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8- Find the area of the region determined by the intersections of the curves.

$$y = \sin x \ (0 \leq x \leq 2\pi), \ y = \cos x$$

- A- 5.8
- B- 5.7
- C- 5.9
- D- 6.5

9- Find the area of the region determined by the intersections of the curves.

$$y = x, y = 2, y = 6 - x, y = 0$$

- A- 10
- B- 6
- C- 8
- D- 12



10- Find the area of the region determined by the intersections of the curves.

$$x = y^2, x = 4$$

- A- 32
- B- 10
- C- 10.67
- D- 11.3

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