

Solve:

- 1) Use a definite integral to find the area under the curve $y = 1/x$ on the interval $[3,4]$.
- 2) Use a definite integral to find the area under the curve $y = 1/x$ on the interval $[5,6]$.
- 3) Use a definite integral to find the area under the curve $y = 4x^2 + 4x + 2$ on the interval $[2,6]$.
- 4) Use a definite integral to find the area under the curve $y = 3x + 3$ on the interval $[1,6]$.
- 5) Use a definite integral to find the area under the curve $y = 2x^3 + 2x^2 + 4x + 2$ on the interval $[3,6]$.
- 6) Use a definite integral to find the area under the curve $y = 2x^2 + 5$ on the interval $[5,6]$.
- 7) Use a definite integral to find the area under the curve $y = 3x + 4$ on the interval $[3,4]$.
- 8) Use a definite integral to find the area under the curve $y = 4x^2 + 3$ on the interval $[0,2]$.