

Assignment: G14

(1) $\int_0^2 3x - 2x^4 dx =$

(2) $\int_0^2 2 - \sqrt{x} dx =$

(3) $\int_0^1 (4x^3 + 1)^3 (6x^2) dx =$

(4) Find the area between the graph of $y = x^2 + 3$ and the x – axis in the second quadrant.

(5) $\int_0^4 5x^2 - 4x + \sqrt{x} dx =$

(6) $\int_1^2 (1 + 5x^2)^3 (5x) dx =$

(7) $\int_1^2 \frac{(2x)(3x-1)-(x^2)(3)}{(3x-1)^2} dx =$

(8) $\int_1^4 (2x^3 + x)(\sqrt{x}) + (x^4 + x^2)\left(\frac{1}{2\sqrt{x}}\right) dx =$

(9) $\int_0^2 e^{2x} dx =$

(10) $\int_0^2 2xe^{x^2+x} + e^{x^2+x} dx =$

(11) $\int_1^2 \frac{1}{3x-1} dx$

(12) $\int_1^2 \frac{1}{(3x-1)^2} dx =$

(13) $\int_1^2 \frac{1}{(3x-1)^3} dx =$