

Evaluate:

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

2) $\int_3^6 (x^2 - 2x) dx$

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

4) $\int_0^1 \left(\frac{z}{(z^2 + 1)^3} \right) dz$

5) $\int_1^{10} \sqrt{5x - 1} dx$

6) $\int_{-2}^0 3w\sqrt{4 - w^2} dw$

7) $\int_0^{\pi/2} \sin 2x dx$

8) $\int_1^2 t^2 \sqrt{t^3 + 1} dt$

9) $\int_0^1 \frac{y^2 + 2y}{\sqrt[3]{y^3 + 3y^2 + 4}} dy$