

Basic Integration Quiz

Use no special Integration Techniques

$$1) \int 4x^2 + 2x - 1 + \frac{2}{\sqrt{x}} + \frac{3}{\sqrt[3]{x^2}} dx$$

$$2) \int (x^3 + 3)^2 dx$$

$$3) \int \frac{4\sqrt[3]{z} - 3\sqrt{z}}{2\sqrt[3]{z}} dz$$

$$4) \int \frac{x^5 + 2x^3 - 2x^2 - 4}{x^2 + 2} dx$$