## Atividade

Calcule a integral de:

1) $\int \frac{1}{x^3} dx$

2) $\int 5u^{3/2} du$

3) $\int \frac{2}{\sqrt[3]{x}} dx$

4) $\int 6t^2 \sqrt[3]{t}\, dt$

5) $\int (4x^3 + x^2) dx$

6) $\int y^3(2y^2 - 3) dy$

7) $\int (3 - 2t + t^2) dt$

8) $\int (8x^4 + 4x^3 - 6x^2 - 4x + 5) dx$

9) $\int \sqrt{x}\,(x + 1) dx$

10) $\int (x^{3/2} - x) dx$

11) $\int \left( \frac{2}{x^3} + \frac{3}{x^2} + 5 \right) dx$

12) $\int \frac{x^2 + 4x - 4}{\sqrt{x}} dx$

**Respostas**:

1) $-\frac{1}{2x^2} + C$

2) $2u^{5/2} + C$

3) $3x^{2/3} + C$

4) $\frac{9}{5} t^{10/3} + C$

5) $x^4 + \frac{1}{3}x^3 + C$

6) $\frac{1}{3}y^6 - \frac{3}{4}y^4 + C$

7) $3t - t^2 + \frac{1}{3}t^3 + C$

8) $\frac{8}{5}x^5 + x^4 - 2x^3 - 2x^2 + 5x + C$

9) $\frac{2}{5}x^{5/2} + \frac{2}{3}x^{3/2} + C$

10) $\frac{2}{5}x^{5/2} - \frac{1}{2}x^2 + C$

11) $-\frac{1}{x^2} - \frac{3}{x} + 5x + C$

12) $\frac{2}{5}x^{5/2} + \frac{8}{3}x^{3/2} - 8x^{1/2} + C$