

Antiderivatives

Find the general antiderivative. $\int (3x^4 - 3x)dx$

A) $\frac{3}{5}x^5 - \frac{3}{2}x^2 + c$

B) $\frac{3}{5}x^5 - \frac{3}{2}x^2$

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

D) $\frac{1}{5}x^5 - \frac{1}{2}x^2$

Find the general antiderivative. $\int (x^3 - 2)dx$

A) $\frac{1}{3}x^4 - 2x + c$

B) $\frac{1}{4}x^4 - 2x + c$

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

D) $\frac{1}{4}x^4 - x + c$

Find the general antiderivative. $\int (3\sqrt{x} - \frac{1}{x^4})dx$

A) $6x^{\frac{3}{2}} + \frac{1}{3x^3} + c$

B) $2x^{\frac{3}{2}} + \frac{1}{x^3} + c$

C) $2x^{\frac{3}{2}} + \frac{1}{3x^3} + c$

D) $6x^{\frac{3}{2}} + \frac{1}{x^3} + c$