Antiderivatives

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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