Gr12Advanced **Math**

Antiderivatives

Find the general antiderivative. $\int(2x^{-2}+\frac{1}{\sqrt{x}})dx$

A) $\frac{-2}{x}+\sqrt{x}+C$

B) $\frac{2}{x}+2\sqrt{x}+C$

C) $\frac{2}{x}+\sqrt{x}+C$

D) $\frac{-2}{x}+2\sqrt{x}+C$

Find the general antiderivative. $\int(\frac{x^{\frac{1}{3}}-3}{x^{\frac{2}{3}}})dx$

A) $\frac{2}{3}x^{\frac{2}{3}}-9x^{\frac{1}{3}}+C$

B) $\frac{3}{2}x^{\frac{2}{3}}-9x^{\frac{1}{3}}+C$

C) $x^{\frac{2}{3}}-9x^{\frac{1}{3}}+C$

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

Find the general antiderivative. $\int(\frac{2x^{\frac{3}{4}}+x}{x^{\frac{5}{4}}})dx$

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

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

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

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

LIVEWORKSHEETS