

أوجد كلًا من المتكاملات التالية:

٩ $\int \sin^3 x \cos^2 x \, dx$

١ $\int \frac{\sin x}{\left(\frac{\cos x}{2}\right)^2} \, dx$

١٠ $\int \cos^2 x \, dx$

٢ $\int \frac{\cos x + \sin x}{\cos^2 x} \, dx$

١١ $\int \frac{\sin x \cos^2 x}{(1 + \sin x)^2} \, dx$

٣ $\int \frac{1}{\sin^2 x - \frac{1}{4}} \, dx$

١٢ $\int \frac{\cos^2 x \sin^2 x}{\cos^2 x} \, dx$

٤ $\int \frac{1}{\cos^2 x} \, dx$

١٣ $\int \frac{1}{\sqrt{\frac{1}{\sin^2 x} - 1}} \, dx$

٥ $\int \sin^2 x \cos^3 x \, dx$

١٤ $\int \frac{1}{\sin^2 x + 2\sin x + 2} \, dx$

٦ $\int \frac{\cos x}{\sin^2 x} \, dx$

١٥ $\int \sin^2 x \cos^2 x \, dx$

٧ $\int \frac{1}{\sin^2 x} \sqrt{\frac{\cos x - 1}{\cos x}} \, dx$

١٦ $\int \frac{\cos x}{\sin^2 x} \, dx$

٨ $\int \frac{\cos x}{\sin^2 x} \, dx$

١٧ $\int \frac{\sqrt{\sin^2 x + 1}}{\sin^2 x} \, dx$

<p>(٢٦) $\int \frac{1-2x}{x^2+1} dx$</p>	<p>(١٨) $\int \frac{1}{x^2-x} dx$</p>
<p>(٢٧) $\int x \ln(x) dx$</p>	<p>(١٩) $\int \frac{\sqrt{x+3}}{(x+3)^2} dx$</p>
<p>(٢٨) $\int 1+x+x^2 dx$</p>	<p>(٢٠) $\int \frac{x^2}{x-1} dx$</p>
<p>(٢٩) $\int \frac{1}{x^2+2x} dx$</p>	<p>(٢١) $\int \frac{x^2}{x^2+1} dx$</p>
<p>(٣٠) $\int \frac{1}{x-\sqrt{x}} dx$</p>	<p>(٢٢) $\int \frac{1}{x^2+1} dx$</p>
<p>(٣١) $\int \frac{1}{x^2-1} dx$</p>	<p>(٢٣) $\int \frac{1}{x^2-4} dx$</p>
<p>(٣٢) $\int \frac{1}{x^2+1} dx$</p>	<p>(٢٤) $\int \frac{x^2}{x^2+1} dx$</p>
<p>(٣٣) $\int \frac{1}{x^2+1} dx$</p>	<p>(٢٥) $\int \frac{(x-1)^2}{x^2} dx$</p>