Zestaw XIII Całka nieoznaczona cz. 2

1. Wyznacz całki:
   a. $\int \frac{dx}{x^2+4x+8}$
   b. $\int \frac{7-8x}{2x^2-3x+1}dx$
   c. $\int \frac{6x^3-7x^2+3x-1}{2x-3x^2}dx$
   d. $\int \frac{dx}{\sqrt{x^2-4x-3}}$
   e. $\int \frac{3x-5}{\sqrt{9+6x-3x^2}}dx$
   f. $\int \sqrt{x^2-3}\,dx$
   g. $\int \sqrt{3+4x-x^2}$
   h. $\int \frac{dx}{2x^2-12x+27}$
2. Wyznacz całki funkcji wymiernych:
   a. $\int \frac{3x^2+8}{x^3+4x^2+4x}dx$
   b. $\int \frac{2x^5+6x^3+1}{x^4+3x^2}dx$
   c. $\int \frac{x^3+4x^2-2x+1}{x^4+x}dx$
   d. $\int \frac{6x^3-7x^2+3x-1}{2x-3x^2}dx$
   e. $\int \frac{x^4+1}{x^3-2x^2+x}dx$
3. Wyznacz całki:
   a. $\int \sin^4 x\cos^2 x\,dx$
   b. $\int \sin^3 x\cos^5 x\,dx$
   c. $\int \frac{dx}{\cos x}$
   d. $\int \frac{dx}{\sin x}$
   e. $\int \frac{dx}{\sin x\cos x}$
   f. $\int \frac{dx}{2+\cos x}$
   g. $\int \frac{dx}{1+\sin x+\cos x}$
   h. $\int \frac{tg\,x\,dx}{tg\,x+4}$
   i. $\int \frac{dx}{2\sin x-\cos x}$
   j. $\int \frac{tg\,x\,dx}{1-ctg^2 x}$
   k. $\int \frac{dx}{1+2\cos^2 x}$
   l. $\int \frac{e^x+1}{e^x-1}dx$
   m. $\int \frac{\cos^5 x\,dx}{1+\sin^2 x}$
4. Wyznacz całki:
   a. $\int \frac{1+\sqrt[4]{x}}{x+\sqrt{x}}$
   b. $\int \frac{1}{x^2}\sqrt{\frac{1+x}{x}}dx$
   c. $\int x^2\sqrt{9-x^2}\,dx$
   d. $\int \frac{dx}{x^2\sqrt[3]{(1+x^3)^5}}$
   e. $\int \frac{dx}{(x-1)\sqrt{1-x^2}}$
   f. $\int \frac{dx}{x^2\sqrt{4+x^2}}$
   g. $\int \frac{\sqrt{x^2-1}}{x}dx$