1430. $\ln|x+1|\sqrt{x^2+4}+C$. **1431.** $3\ln\frac{\sqrt{x^2-2x+5}}{|x|}+2\operatorname{arctg}\frac{x-1}{2}+C$.

1432. $\frac{1}{24}\ln\frac{(x+2)^2}{x^2-2x+4}+\frac{1}{4\sqrt{3}}\operatorname{arctg}\frac{x-1}{\sqrt{3}}+C$. **1433.** $\ln\frac{\sqrt{x^2+1}}{|x+1|}-$

$-\frac{1}{x+1}+\operatorname{arctg}x+C$. **1434.** 1) $\frac{1}{2b^3}\left(\operatorname{arctg}\frac{x}{b}+\frac{bx}{x^2+b^2}\right)+C$;

2) $\frac{1}{8b^4}\left[\frac{x(5b^2+3x^2)}{(x^2+b^2)^2}+\frac{3}{b}\operatorname{arctg}\frac{x}{b}\right]+C$. **1435.** 1) $-\frac{x+9}{8(x^2+2x+5)}-$

$-\frac{1}{16}\operatorname{arctg}\frac{x+1}{2}+C$; 2) $\frac{1}{8}\left[\frac{(x-3)(3x^2-18x+32)}{(x^2-6x+10)^2}+3\operatorname{arctg}(x-3)\right]+C$.

1436. $\ln\frac{\sqrt{x^2+1}}{|x+1|}+\frac{x-1}{x^2+1}+C$. **1437.** $\frac{x-2}{4(x^2+2)}+\frac{\sqrt{2}}{8}\operatorname{arctg}\frac{x}{\sqrt{2}}+C$.

1438. $\frac{1}{a}\ln\left|\frac{x}{x+a}\right|+C$. **1439.** $\frac{1}{a-b}\ln\left|\frac{x+b}{x+a}\right|+C$.

1440. $\frac{1}{2}\ln\left|1-\frac{2}{x}\right|+C$. **1441.** $\frac{1}{10\sqrt{3}}\ln\left|\frac{x-\sqrt{3}}{x+\sqrt{3}}\right|-$

$-\frac{1}{5\sqrt{2}}\operatorname{arctg}\frac{x}{\sqrt{2}}+C$. **1442.** $\frac{1}{x}+\frac{1}{2}\ln\left|\frac{x-1}{x+1}\right|+C$.

1443. $\frac{1}{4}\int\frac{4+x^2-x^2}{x(4+x^2)}dx=\frac{1}{4}\ln\frac{|x|}{\sqrt{4+x^2}}+C$. **1444.** $\ln\frac{C(x-2)^3}{x-1}$.

1445. $\ln C(x-1)\sqrt{2x+3}$. **1446.** $\ln\frac{C(x-1)^3}{(x+2)^2(x-2)}$.

1447. $3\ln\frac{C(x-1)}{x+2}-\frac{2}{x+2}$. **1448.** $2\ln\frac{C(x-2)}{x}-\frac{1}{x-2}$.

1449. $\ln\frac{|x|}{\sqrt{x^2-2x+2}}+2\operatorname{arctg}(x-1)+C$. **1450.** $\frac{1}{a}\ln\frac{\sqrt{x^2+a^2}}{|x|}+$

$+\frac{1}{a}\operatorname{arctg}\frac{x}{a}+C$. **1451.** $\frac{1}{3}\ln\frac{|x+1|}{\sqrt{x^2+2}}+\frac{1}{3\sqrt{2}}\operatorname{arctg}\frac{x}{\sqrt{2}}+C$.

1452. $\frac{1}{24}\ln\frac{(x-2)^2}{x^2+2x+4}-\frac{1}{4\sqrt{3}}\operatorname{arctg}\frac{x+1}{\sqrt{3}}+C$.

1453. $-\frac{1}{2}\left[\frac{x+2}{x^2+2x+2}+\operatorname{arctg}(x+1)\right]+C$.

1454. $\frac{1}{5}\ln\left|\frac{x}{x+5}\right|+C$. **1455.** $\frac{1}{3}\int\frac{x^2+3-x^2}{x^2(x^2+3)}dx=$

$=-\frac{1}{3x}-\frac{1}{3\sqrt{3}}\operatorname{arctg}\frac{x}{\sqrt{3}}+C$. **1456.** $\frac{1}{2}\int\frac{x^2+1-(x^2-1)}{(x^2+1)(x^2-1)}dx=$

$=\frac{1}{4}\ln\left|\frac{x-1}{x+1}\right|-\frac{1}{2}\operatorname{arctg}x+C$. **1457.** $\frac{1}{3}\int\frac{x^2+1-(x^2-2)}{(x^2+1)(x^2-2)}dx=$

$=\frac{1}{6\sqrt{2}}\ln\left|\frac{x-\sqrt{2}}{x+\sqrt{2}}\right|-\frac{1}{3}\operatorname{arctg}x+C$. **1458.** $\frac{x+2}{5}\sqrt[3]{(3x+1)^2}+C$.