Ответы к самостоятельной работе ...

1) $\boxed{1}\ 6+\sqrt{11}-\sqrt{6}$ $\boxed{2}\ d=\text{НОД}(f(x),g(x))=x-1$

$\boxed{3}\ \dfrac{x^2}{4}-y^2=1$ $\boxed{4}\ \dfrac{1}{2}\dfrac{1}{x-3}+\ln|x-3|+\dfrac{3}{2}\ln|x-1|$

$\boxed{5}\ \dfrac{1}{x+4}+2\ln|x+4|+3\ln|x+3|$

$\boxed{6}\ -\dfrac{1}{2}\cos x-\dfrac{1}{38}\cos 19x$ $\boxed{7}\ 432$

2) $\boxed{1}\ \sqrt{2}+6$ $\boxed{2}\ d=\text{НОД}(f(x),g(x))=3x+2$

$\boxed{3}\ x^2-\dfrac{y^2}{4}=1$ $\boxed{4}\ -\dfrac{1}{x-4}-2\ln|x-4|-\ln|x-1|$

$\boxed{5}\ \ln\left(x^2+4x+8\right)-\ln|x+1|-\dfrac{1}{2}\operatorname{arctg}\dfrac{1}{2}(x+2)$

$\boxed{6}\ \dfrac{1}{10}\sin 5x+\dfrac{1}{26}\sin 13x$ $\boxed{7}\ 78$

3) $\boxed{1}\ \sqrt{3}+\sqrt{2}+3$ $\boxed{2}\ d=\text{НОД}(f(x),g(x))=3x-1$

$\boxed{3}\ x^2-y^2=4$

$\boxed{4}\ \dfrac{1}{2}\ln\left(x^2-4x+6\right)-\dfrac{1}{2}\ln|x+4|+\dfrac{5\sqrt{2}}{4}\operatorname{arctg}\dfrac{x-2}{\sqrt{2}}$

$\boxed{5}\ -2\ln|x-3|+2\ln|x-5|+\ln|x-4|$

$\boxed{6}\ -\dfrac{1}{12}\cos 6x-\dfrac{1}{20}\cos 10x$ $\boxed{7}\ 270$