

Review Mixed Practice Key

- $-(9-x^2)^{\frac{1}{2}} + c$
- $\frac{x^3}{3} - 5\frac{x^2}{2} + 19x - 115\ln|x+5| + c$
- $-\frac{1}{5}\ln|\cos 5\theta| + c$
- $\frac{\sqrt{3}}{3}\tan^{-1}\left(\frac{x-3}{\sqrt{3}}\right) + c$
- $\ln|\cot t| + c$
- $\frac{1}{2}\sin^{-1}(t^2) + c$
- $\ln|\sec t + \tan t| - \ln|\cos t| + c$
- $-\ln|1 + e^{-x}| + c$
- $\ln|e^x + e^{-x}| + c$
- $x^2 - x + c$
- $\frac{-7^{(3-x)^2}}{2\ln 7}$ or $\frac{-7^{(3-x)^2}}{\ln 49}$
- $-\frac{1}{2}\ln|\csc 2x + \cot 2x| + c$
- $\ln|\sec x - 1| + c$
- $4\sec^{-1}(3x) + c$
- $r = \ln|\tan t + 1| + 4$
- $\frac{7}{3}$
- $1 - 2\ln 2$
- $\ln|2 - \sin 2| - \ln|1 - \sin 1|$ or $\ln\left|\frac{2 - \sin 2}{1 - \sin 1}\right|$
- $-\frac{1}{2}\left(\frac{1}{e} - 1\right)$
- $\frac{7}{\ln 4}$
- $\frac{\pi}{6}$