

#4 0

#10 a) $-1/2$ b) $-1/60$ c) $-\frac{\pi}{2} - \frac{2}{\pi}$

#12 False

#14 True

#18 $\sqrt{5}(1 - e^{-2\pi})/4$

#24 $-39/2$

#26 $\frac{\pi^6}{192}$

#32 $-1/4$

#42 $92/9 + \ln 3$

#46 $\frac{1}{3} \tan^{-1} 2 - \frac{2}{3} \tan^{-1} \frac{1}{2}$

#48 $32/3$