2) TAM $n=4$ $\int_{-1}^{2}(x^3+x)\,dx$

$h=\frac{2-(-1)}{4}=\frac{3}{4}$

$\frac{1}{2}\left(\frac{3}{4}\right)\left[-2+2(-.266)+2(.625)+2(3.203)+10\right]$

	x	y
	-1	-2
$+\frac{3}{4}$ <	$-\frac{1}{4}$	$-.266$
$+\frac{3}{4}$ <	$\frac{1}{2}$	$.625$
$+\frac{3}{4}$ <	$\frac{5}{4}$	3.203
$+\frac{3}{4}$ <	2	10

$A=\frac{3}{8}(15.124)$

$=\boxed{5.672}$

X3) TAM

$f(x)=\sqrt{x}\sin x$ for $\left[\frac{\pi}{2},\pi\right]$

$n=4$

$h=\frac{\pi-\frac{\pi}{2}}{4}=\frac{\frac{\pi}{2}}{4}=\frac{\pi}{8}$

$A=\frac{1}{2}\cdot\frac{\pi}{8}(\ldots)=\boxed{1.430}$

	x	y
	$\pi/2$	$\sqrt{\frac{\pi}{2}}$
x2	$5\pi/8$	$\sqrt{\frac{5\pi}{8}}\sin\frac{5\pi}{8}$
x2	$3\pi/4$	$\sqrt{\frac{3\pi}{4}}\sin\frac{3\pi}{4}$
x2	$7\pi/8$	$\sqrt{\frac{7\pi}{8}}\sin\frac{7\pi}{8}$
x1	π	0