

1

1.a

1.a.1 ECM teórico de $\hat{\theta}_{MV}$

$$ECM(\hat{\theta}_{MC}, \theta) = \frac{n}{n+1} * \theta$$

	$\theta = 1$	$\theta = 10$	$\theta = 40$
$n = 5$	0.8333	8.333	33.33
$n = 30$	0.9677	9.677	38.71
$n = 60$	0.9836	9.836	39.36

1.a.2 ECM teórico de $\hat{\theta}_m$

$$ECM(\hat{\theta}_m, \theta) = \frac{\theta^2}{3n}$$

	$\theta = 1$	$\theta = 10$	$\theta = 40$
$n = 5$	$6.667x10^{-2}$	6.667	106.7
$n = 30$	$1.111x10^{-2}$	1.111	17.78
$n = 60$	$5.555x10^{-3}$	0.5555	8.889