

TABLE 4.3 Estimated error bounds associated with common mathematical operations using inexact numbers \tilde{u} and \tilde{v} .

Operation		Estimated Error
Addition	$\Delta(\tilde{u} + \tilde{v})$	$\Delta\tilde{u} + \Delta\tilde{v}$
Subtraction	$\Delta(\tilde{u} - \tilde{v})$	$\Delta\tilde{u} + \Delta\tilde{v}$
Multiplication	$\Delta(\tilde{u} \times \tilde{v})$	$ \tilde{u} \Delta\tilde{v} + \tilde{v} \Delta\tilde{u}$
Division	$\Delta\left(\frac{\tilde{u}}{\tilde{v}}\right)$	$\frac{ \tilde{u} \Delta\tilde{v} + \tilde{v} \Delta\tilde{u}}{ \tilde{v} ^2}$