Exercise 6.2 Evaluate on an expression (not a rule)

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{\theta, \varphi}::Coordinate.
{a,b,c,d,e,f,g,h#}::Indices(values={\theta, \varphi}, position=independent).

partial{#}::PartialDerivative.

V := { V_{\theta} = f(\theta, \varphi), V_{\varphi} = g(\theta, \varphi) }. # cdb(ex-0602.100, V)
dV := \partial_{b}{V_{a}} + \partial_{a}{V_{b}}. # cdb(ex-0602.101, dV)

evaluate (dV, V) # cdb(ex-0602.102, dV)
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$$V_{a} = \left[V_{\theta} = f\left(\theta, \varphi\right), V_{\varphi} = g\left(\theta, \varphi\right)\right] \tag{ex-0602.100}$$

$$\partial_b V_a + \partial_a V_b$$
 (ex-0602.101)

$$\Box_{ab} \begin{cases} \Box_{\varphi\varphi} = 2\partial_{\varphi}g\left(\theta,\varphi\right) \\ \Box_{\varphi\theta} = \partial_{\varphi}f\left(\theta,\varphi\right) + \partial_{\theta}g\left(\theta,\varphi\right) \\ \Box_{\theta\varphi} = \partial_{\varphi}f\left(\theta,\varphi\right) + \partial_{\theta}g\left(\theta,\varphi\right) \\ \Box_{\theta\theta} = 2\partial_{\theta}f\left(\theta,\varphi\right) \end{cases}$$
(ex-0602.102)