Exercise 6.1 Evaluate – without `rhsonly = True`

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

\partial{#}::PartialDerivative.

V  := { V_{\theta} = \varphi, V_{\varphi} = \sin(\theta) }.   # cdb(ex-0601.100,V)
dV := dV_{a b} -> \partial_{b}{V_{a}} - \partial_{a}{V_{b}}.  # cdb(ex-0601.101,dV)

evaluate (dV, V)                                              # cdb(ex-0601.102,dV)
```

Notice how `evaluate` has been applied to both the left and right hand sides of the rule.

$$V_a = [V_\theta = \varphi,\ V_\varphi = \sin\theta] \tag{ex-0601.100}$$

$$dV_{ab} \to \partial_b V_a - \partial_a V_b \tag{ex-0601.101}$$

$$\square_{ab}\begin{cases} \square_{\theta\theta} = dV_{\theta\theta} \\ \square_{\varphi\theta} = dV_{\varphi\theta} \\ \square_{\theta\varphi} = dV_{\theta\varphi} \\ \square_{\varphi\varphi} = dV_{\varphi\varphi} \end{cases} \to \square_{ab}\begin{cases} \square_{\varphi\theta} = \cos\theta - 1 \\ \square_{\theta\varphi} = -\cos\theta + 1 \end{cases} \tag{ex-0601.102}$$

Exercise 6.1 Evaluate – with `rhsonly = True`

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

\partial{#}::PartialDerivative.

V  := { V_{\theta} = \varphi, V_{\varphi} = \sin(\theta) }.   # cdb(ex-0601.200,V)
dV := dV_{a b} -> \partial_{b}{V_{a}} - \partial_{a}{V_{b}}.  # cdb(ex-0601.201,dV)

evaluate (dV, V, rhsonly=True)                                # cdb(ex-0601.202,dV)
```

This is an improvement, only the right hnd side has been expanded into components.

$$V_a = [V_\theta = \varphi,\ V_\varphi = \sin\theta] \tag{ex-0601.200}$$

$$dV_{ab} \to \partial_b V_a - \partial_a V_b \tag{ex-0601.201}$$

$$dV_{ab} \to \Box_{ab} \begin{cases} \Box_{\varphi\theta} = \cos\theta - 1 \\ \Box_{\theta\varphi} = -\cos\theta + 1 \end{cases} \tag{ex-0601.202}$$