Exercise 6.08a A problem with evaluate

```
Traceback (most recent call last):
    File "/usr/local/bin/cadabra2", line 248, in <module>
        exec(cmp)
    File "ex-0608.py", line 27, in <module>
        evaluate (dV, dVrule)
RuntimeError: Dependencies on derivatives are not yet handled in the SymPy bridge
```

Exercise 6.08b A work around

```
{\theta, \varphi}::Coordinate.
     {a,b,c,d,e,f,g,h#}::Indices(values={\theta, \varphi}, position=independent).
     \partial{#}::PartialDerivative.
     V_{a}::Depends(\theta,\varphi,\partial{#}).
     hide := \displaystyle \left\{ x_{b} \right\} - dV_{a} b.
     dVrule := { dV_{\theta} = \sin(\theta), }
10
                  dV_{\text{varphi}} = \cos(\theta).
                                                                        # cdb(ex-0608.201,dVrule)
11
     dV := \operatorname{partial}_{b}{V_{a}} - \operatorname{partial}_{a}{V_{b}}.
                                                                        # cdb(ex-0608.202,dV)
12
13
                                                                        # cdb(ex-0608.212,dV)
     substitute (dV, hide)
14
     evaluate (dV, dVrule)
                                                                        # cdb(ex-0608.203,dV)
15
```

The workaround here is to to hide the derivatives before calling evaluate.

$$dV_{ba} - dV_{ab}$$

$$dV_{ab} = \partial_b V_a - \partial_a V_b$$

$$= \Box_{ab} \begin{cases} \Box_{\varphi\theta} = \sin \theta - \cos \theta \\ \Box_{\theta\varphi} = -\sin \theta + \cos \theta \end{cases}$$
(ex-0608.212)
$$(ex-0608.203)$$