```
In[•]:= riemann := riemann = Simplify[Table[
        D[affine[[i, j, l]], coord[[k]]] - D[affine[[i, j, k]], coord[[l]]] +
          Sum[affine[[s, j, l]] × affine[[i, k, s]] - affine[[s, j, k]] × affine[[i, l, s]],
            {s, 1, n}],
          {i, 1, n}, {j, 1, n}, {k, 1, n}, {l, 1, n}]]

In[•]:= listriemann :=
        Table[If[UnsameQ[riemann[[i, j, k, l]], 0],
          {ToString[R[i, j, k, l]], riemann[[i, j, k, l]]}], {i, 1, n}, {j, 1, n},
        {k, 1, n}, {l, 1, k - 1}]

In[•]:= TableForm[Partition[DeleteCases[Flatten[listriemann], Null], 2],
        TableSpacing → {2, 2}]

Out[•]//TableForm=
        R[1, 2, 2, 1]    -Sin[θ]²

        R[2, 1, 2, 1]    1


In[•]:= riemannLow := riemannLow = Simplify[Table[
        Sum[metric[[m, i]], {m, 1, n}] × riemann[[i, j, k, l]],
          {i, 1, n}, {j, 1, n}, {k, 1, n}, {l, 1, n}]]

In[•]:= listriemannLow :=
        Table[If[UnsameQ[riemannLow[[i, j, k, l]], 0],
          {ToString[R[i, j, k, l]], riemannLow[[i, j, k, l]]}], {i, 1, n}, {j, 1, n},
        {k, 1, n}, {l, 1, k - 1}]

In[•]:= TableForm[Partition[DeleteCases[Flatten[listriemannLow], Null], 2],
        TableSpacing → {2, 2}]

Out[•]//TableForm=
        R[1, 2, 2, 1]    -a² Sin[θ]²

        R[2, 1, 2, 1]    a² Sin[θ]²
```