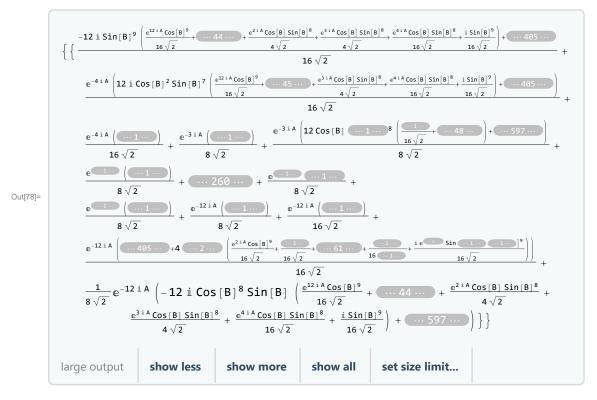
```
In[43]:= Z = PauliMatrix[3]
Out[43]= \{\{1,0\},\{0,-1\}\}
In[44]:= X = PauliMatrix[1]
Out[44]= \{ \{ 0, 1 \}, \{ 1, 0 \} \}
In[45]:= Z0 = KroneckerProduct[Z, IdentityMatrix[2^8]];
In[46]:= Z1 = KroneckerProduct[IdentityMatrix[2], Z, IdentityMatrix[2^7]];
In[47]:= Z2 = KroneckerProduct[IdentityMatrix[2^2], Z, IdentityMatrix[2^6]];
ln[48]:= Z3 = KroneckerProduct[IdentityMatrix[2^3], Z, IdentityMatrix[2^5]];
In[49]:= Z4 = KroneckerProduct[IdentityMatrix[2^4], Z, IdentityMatrix[2^4]];
In[50]= Z5 = KroneckerProduct[IdentityMatrix[2^5], Z, IdentityMatrix[2^3]];
In[51]= Z6 = KroneckerProduct[IdentityMatrix[2^6], Z, IdentityMatrix[2^2]];
In[52]:= Z7 = KroneckerProduct[IdentityMatrix[2^7], Z, IdentityMatrix[2^1]];
In[53]:= Z8 = KroneckerProduct[IdentityMatrix[2^8], Z];
ln[54]:= H = (12 * 3 IdentityMatrix[2^9] -
            (Z0.Z1 + Z0.Z3 + Z1.Z2 + Z1.Z3 + Z2.Z4 + Z3.Z4 + Z4.Z5 + Z4.Z8 + Z5.Z6 + Z7.Z8 +
              Z6.27 + Z6.28) - (2Z0 + 3Z1 + 2Z2 + 3Z3 + 4Z4 + 2Z5 + 3Z6 + 2Z7 + 3Z8)) / 4;
In[55]:= UP = {\{1\}, \{0\}\}};
In[56]:= DW = \{\{0\}, \{1\}\};
In[57]:= Test = KroneckerProduct[DW, DW, DW, DW, DW, DW, DW, DW];
In[58]:= TestUp = KroneckerProduct[UP, UP, UP, UP, UP, UP, UP, UP];
In[59]:= TestDw = KroneckerProduct[DW, DW, DW, DW, DW, DW, DW, DW, DW];
In[60]:= CostOfTest = Transpose[TestUp].H.Test;
In[61]:= X0 = KroneckerProduct[X, IdentityMatrix[2^8]];
In[62]:= X1 = KroneckerProduct[IdentityMatrix[2], X, IdentityMatrix[2^7]];
In[63]:= X2 = KroneckerProduct[IdentityMatrix[2^2], X, IdentityMatrix[2^6]];
In[64]:= X3 = KroneckerProduct[IdentityMatrix[2^3], X, IdentityMatrix[2^5]];
In[65]:= X4 = KroneckerProduct[IdentityMatrix[2^4], X, IdentityMatrix[2^4]];
In[66]:= X5 = KroneckerProduct[IdentityMatrix[2^5], X, IdentityMatrix[2^3]];
In[67]:= X6 = KroneckerProduct[IdentityMatrix[2^6], X, IdentityMatrix[2^2]];
In[68]:= X7 = KroneckerProduct[IdentityMatrix[2^7], X, IdentityMatrix[2^1]];
In[69]:= X8 = KroneckerProduct[IdentityMatrix[2^8], X];
In[71]:= ExpCost = MatrixExp[-I*A*H];
In[72]:=
```

```
In[73]:= Rx = MatrixExp[-I * B * PauliMatrix[1]];
ln[74]:= ExpRot = KroneckerProduct[Rx, Rx, Rx, Rx, Rx, Rx, Rx, Rx, Rx];
In[75]:= ExpRotT = Refine[ConjugateTranspose[ExpRot], {Element[B, Reals]}];
In[76]:= ExpCostT = Refine[ConjugateTranspose[ExpCost], {Element[A, Reals]}];
Inj77!= PM = HadamardMatrix[2^9].KroneckerProduct[UP, UP, UP, UP, UP, UP, UP, UP, UP];
In[78]:= Result = Transpose[PM].ExpCostT.ExpRotT.H.ExpRot.ExpCost.PM
```



In[82]:= F1 = Simplify[Result]

$$\begin{array}{l} \text{Out} \text{(82)=} & \Big\{ \Big\{ \frac{1}{512} \, \, \mathrm{e}^{-6\,\mathrm{i}\,\mathrm{A}} \, \Big(1 + 11\,\, \mathrm{e}^{\mathrm{i}\,\mathrm{A}} + 46\,\, \mathrm{e}^{2\,\mathrm{i}\,\mathrm{A}} + 55\,\, \mathrm{e}^{3\,\mathrm{i}\,\mathrm{A}} + 31\,\, \mathrm{e}^{4\,\mathrm{i}\,\mathrm{A}} - 66\,\, \mathrm{e}^{5\,\mathrm{i}\,\mathrm{A}} + 4452\,\, \mathrm{e}^{6\,\mathrm{i}\,\mathrm{A}} - \\ & 66\,\, \mathrm{e}^{7\,\mathrm{i}\,\mathrm{A}} + 31\,\, \mathrm{e}^{8\,\mathrm{i}\,\mathrm{A}} + 55\,\, \mathrm{e}^{9\,\mathrm{i}\,\mathrm{A}} + 46\,\, \mathrm{e}^{10\,\mathrm{i}\,\mathrm{A}} + 11\,\, \mathrm{e}^{11\,\mathrm{i}\,\mathrm{A}} + \mathrm{e}^{12\,\mathrm{i}\,\mathrm{A}} - \left(-1 + \mathrm{e}^{2\,\mathrm{i}\,\mathrm{A}} \right)^2 \\ & \left(1 + 11\,\, \mathrm{e}^{\mathrm{i}\,\mathrm{A}} + 48\,\, \mathrm{e}^{2\,\mathrm{i}\,\mathrm{A}} + 77\,\, \mathrm{e}^{3\,\mathrm{i}\,\mathrm{A}} + 126\,\, \mathrm{e}^{4\,\mathrm{i}\,\mathrm{A}} + 77\,\, \mathrm{e}^{5\,\mathrm{i}\,\mathrm{A}} + 48\,\, \mathrm{e}^{6\,\mathrm{i}\,\mathrm{A}} + 11\,\, \mathrm{e}^{7\,\mathrm{i}\,\mathrm{A}} + \mathrm{e}^{8\,\mathrm{i}\,\mathrm{A}} \Big) \,\, \text{Cos} \, [4\,\mathrm{B}] - 16\,\mathrm{i}\,\, \mathrm{e}^{2\,\mathrm{i}\,\mathrm{A}} \Big\} \, \left(1 + \mathrm{e}^{\mathrm{i}\,\mathrm{A}} \right)^3 \, \left(-1 - 7\,\, \mathrm{e}^{\mathrm{i}\,\mathrm{A}} - 8\,\, \mathrm{e}^{2\,\mathrm{i}\,\mathrm{A}} + 8\,\, \mathrm{e}^{3\,\mathrm{i}\,\mathrm{A}} + 7\,\, \mathrm{e}^{4\,\mathrm{i}\,\mathrm{A}} + \mathrm{e}^{5\,\mathrm{i}\,\mathrm{A}} \Big) \,\, \text{Sin} \, [2\,\mathrm{B}] + \\ & 8\,\mathrm{i}\,\, \mathrm{e}^{2\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] + 64\,\mathrm{i}\,\, \mathrm{e}^{3\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] + 112\,\mathrm{i}\,\, \mathrm{e}^{4\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] - 64\,\mathrm{i}\,\, \mathrm{e}^{5\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] + \\ & 64\,\mathrm{i}\,\, \mathrm{e}^{7\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] - 112\,\mathrm{i}\,\, \mathrm{e}^{8\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] - 64\,\mathrm{i}\,\, \mathrm{e}^{9\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] - 8\,\mathrm{i}\,\, \mathrm{e}^{10\,\mathrm{i}\,\mathrm{A}} \,\, \text{Sin} \, [4\,\mathrm{B}] \Big) \,\Big\} \Big\} \, \right\} \, . \end{array}$$

```
ln[90] = Cost = Simplify \left[ \frac{1}{512} \left( Cos[6A] - ISin[6A] \right) \right]
                                     (1+11 (Cos[A] + ISin[A]) +46 (Cos[2A] + ISin[2A]) +55 (Cos[3A] + ISin[3A]) +
                                             31 (Cos[4A] + ISin[4A]) - 66 (Cos[5A] + ISin[5A]) + 4452 (Cos[6A] + ISin[6A]) -
                                             66 (Cos[7A] + ISin[7A]) + 31 (Cos[8A] + ISin[8A]) + 55 (Cos[9A] + ISin[9A]) +
                                             46 (Cos[10 A] + ISin[10 A]) + 11 (Cos[11 A] + ISin[11 A]) + (Cos[12 A] + ISin[12 A]) -
                                              (-1 + (\cos[2A] + I\sin[2A]))^{2} (1 + 11 (\cos[A] + I\sin[A]) + 48 (\cos[2A] + I\sin[2A]) +
                                                           77 (Cos[3A] + ISin[3A]) + 126 (Cos[4A] + ISin[4A]) + 77 (Cos[5A] + ISin[5A]) +
                                                          48 (Cos[6A] + ISin[6A]) + 11 (Cos[7A] + ISin[7A]) + (Cos[8A] + ISin[8A]))
                                                 Cos[4B] - 16 i (Cos[2A] + ISin[2A]) (1 + (Cos[A] + ISin[A]))^3
                                                  (-1-7 (Cos[A] + ISin[A]) -8 (Cos[2A] + ISin[2A]) +8 (Cos[3A] + ISin[3A]) +
                                                           7 (Cos[4A] + ISin[4A]) + (Cos[5A] + ISin[5A])) Sin[2B] +
                                             8 i (Cos[2 A] + ISin[2 A]) Sin[4 B] + 64 i (Cos[3 A] + ISin[3 A]) Sin[4 B] +
                                             112 i (Cos[4A] + ISin[4A]) Sin[4B] - 64 i (Cos[5A] + ISin[5A]) Sin[4B] +
                                             64 i (Cos[7 A] + I Sin[7 A]) Sin[4 B] - 112 i (Cos[8 A] + I Sin[8 A]) Sin[4 B] -
                                             64 i (Cos[9 A] + I Sin[9 A]) Sin[4 B] - 8 i (Cos[10 A] + I Sin[10 A]) Sin[4 B])]
Out[90]= \frac{1}{512} (4452 - 132 Cos [A] + 62 Cos [2 A] + 110 Cos [3 A] + 92 Cos [4 A] + 22 Cos [5 A] +
                                    2\,Cos\,[\,6\,A\,]\,\,+\,2\,Cos\,[\,A\,-\,4\,B\,]\,\,+\,9\,Cos\,[\,3\,A\,-\,4\,B\,]\,\,-\,11\,Cos\,[\,5\,A\,-\,4\,B\,]\,\,-\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B
                                    608 \cos [A - 2B] + 81 \cos [2(A - 2B)] + 160 \cos [3A - 2B] + 16 \cos [4A - 2B] + 16 \cos [4A - 2B]
                                    512 \cos [2 (A - B)] - 38 \cos [4 (A - B)] + 156 \cos [4 B] - 512 \cos [2 (A + B)] - 512 \cos [2 (A + B)]
                                    54 \cos [4 (A + B)] - 16 \cos [2 (2 A + B)] - 608 \cos [A + 2 B] - 143 \cos [2 (A + 2 B)] - 143 \cos [2 (A + 2 B)]
                                    160 Cos [3 A + 2 B] + 130 Cos [A + 4 B] - 119 Cos [3 A + 4 B] - 11 Cos [5 A + 4 B] - Cos [6 A + 4 B])
   In[91]:= SolutionCord[A_, B_] = Cost
 Out[91]= \frac{1}{512} (4452 - 132 Cos [A] + 62 Cos [2 A] + 110 Cos [3 A] + 92 Cos [4 A] + 22 Cos [5 A] +
                                    2\,Cos\,[\,6\,A\,]\,\,+\,2\,Cos\,[\,A\,-\,4\,B\,]\,\,+\,9\,Cos\,[\,3\,A\,-\,4\,B\,]\,\,-\,11\,Cos\,[\,5\,A\,-\,4\,B\,]\,\,-\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B\,]\,\,+\,11\,Cos\,[\,6\,A\,-\,4\,B
                                    608 Cos [A - 2 B] + 81 Cos | 2 (A - 2 B) | + 160 Cos [3 A - 2 B] + 16 Cos [4 A - 2 B] +
                                    512 \cos [2 (A - B)] - 38 \cos [4 (A - B)] + 156 \cos [4 B] - 512 \cos [2 (A + B)] - 512 \cos [2 (A + B)]
                                    54 \cos [4 (A + B)] - 16 \cos [2 (2 A + B)] - 608 \cos [A + 2 B] - 143 \cos [2 (A + 2 B)] - 143 \cos [2 (A + 2 B)]
                                    160 Cos [3 A + 2 B] + 130 Cos [A + 4 B] - 119 Cos [3 A + 4 B] - 11 Cos [5 A + 4 B] - Cos [6 A + 4 B])
   ln[92]: FindMaximum[{SolutionCord[A, B], 0 < A < 3.14 \& 0 < B < 3.14}, {A, B}]
 Out[92]= \{9.26982, \{A \rightarrow 2.26383, B \rightarrow 2.85107\}\}
```