In[9]:= Simplify Dot Inverse IdentityMatrix[13] -

$$\text{Out} [9] = \left\{ \left\{ \frac{8}{9}, \frac{1}{18}, \frac{1}{18} \right\}, \left\{ \frac{5}{9}, \frac{2}{9}, \frac{2}{9} \right\}, \left\{ \frac{5}{9}, \frac{2}{9}, \frac{2}{9} \right\}, \left\{ \frac{7}{9}, \frac{1}{9}, \frac{1}{9} \right\}, \left\{ \frac{4}{9}, \frac{5}{18}, \frac{5}{18} \right\}, \left\{ \frac{1}{3}, \frac{1}{3}, \frac{1}{3} \right\}, \\ \left\{ \frac{1}{6}, \frac{2}{3}, \frac{1}{6} \right\}, \left\{ \frac{2}{3}, \frac{1}{6}, \frac{1}{6} \right\}, \left\{ \frac{5}{9}, \frac{2}{9}, \frac{2}{9} \right\}, \left\{ \frac{1}{6}, \frac{1}{6}, \frac{2}{3} \right\}, \left\{ \frac{2}{3}, \frac{1}{6}, \frac{1}{6} \right\}, \left\{ \frac{2}{3}, \frac{1}{6}, \frac{1}{6} \right\}, \left\{ 0, \frac{1}{2}, \frac{1}{2} \right\} \right\}$$