

Alternatively, for Method 2:

$$D = \begin{bmatrix} \frac{1}{g(a_1)} & 0 & \dots & 0 \\ 0 & \frac{1}{g(a_2)} & \dots & 0 \\ \vdots & \vdots & \ddots & \vdots \\ 0 & 0 & \dots & \frac{1}{g(a_{16})} \end{bmatrix} \Rightarrow$$

APPENDIX
(Pages x, y)

$$\Rightarrow D = \begin{bmatrix} a^{14} & 0 & 0 & \dots & \dots & \dots & 0 & 0 & 0 \\ 0 & a^{14} & 0 & \dots & \dots & \dots & 0 & 0 & 0 \\ 0 & 0 & a^{13} & \dots & \dots & \dots & 0 & 0 & 0 \\ \vdots & \vdots & \vdots & a^9 & \dots & \dots & \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots & \vdots & a^6 & \dots & \vdots & \vdots & \vdots \\ \vdots & \vdots & \vdots & \vdots & \vdots & a^6 & \dots & \vdots & \vdots \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^3 & \dots & \vdots \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^7 & \dots \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^{11} \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^7 \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^9 \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^3 \\ \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & \vdots & a^{12} \\ 0 & 0 & 0 & \dots & \dots & \dots & a^{13} & 0 & 0 \\ 0 & 0 & 0 & \dots & \dots & \dots & 0 & a^{11} & 0 \\ 0 & 0 & 0 & \dots & \dots & \dots & 0 & 0 & a^{12} \end{bmatrix}$$

$$H_a = T \cdot V \cdot D$$

$$= \mathbf{T} \cdot \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 \\ 0 & 1 & a & a^2 & a^3 & a^4 & a^5 & a^6 & a^7 & a^8 & a^9 & a^{10} & a^{11} & a^{12} & a^{13} & a^{14} \end{bmatrix}$$

α^{14} 0
 α^{13} 0
 α^{12} 0
 α^{11} 0
 α^{10} 0
 α^9 0
 α^8 0
 α^7 0
 α^6 0
 α^5 0
 α^4 0
 α^3 0
 α^2 0
 α^1 0
 α^0 0

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