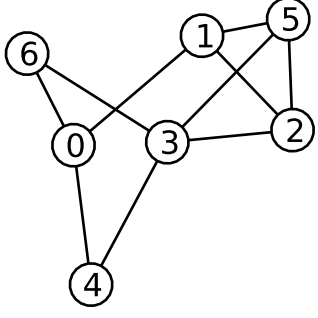
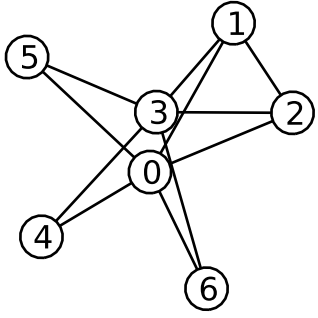
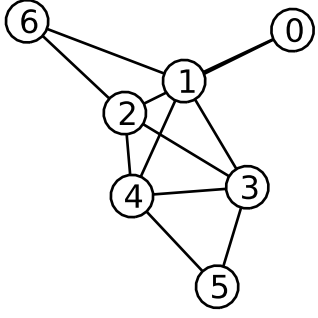
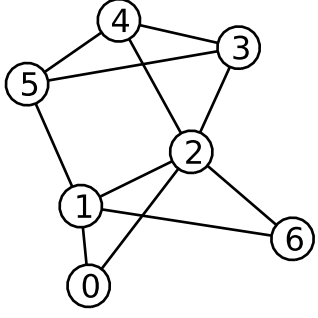
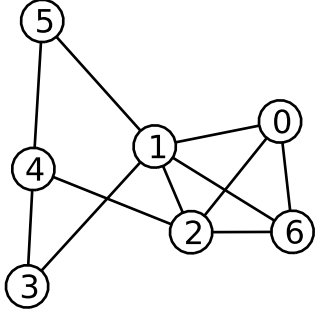
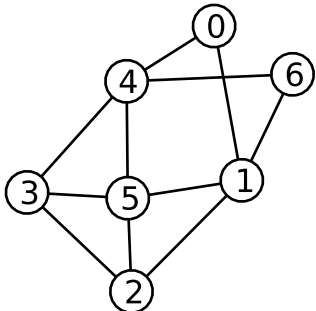
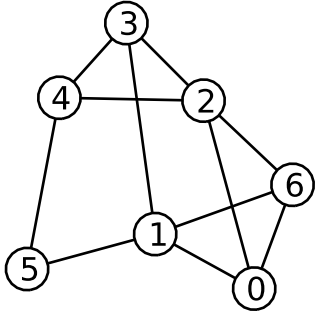
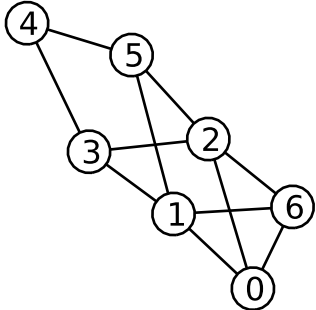
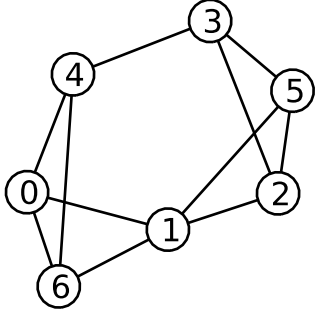
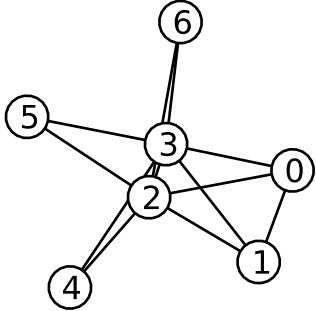
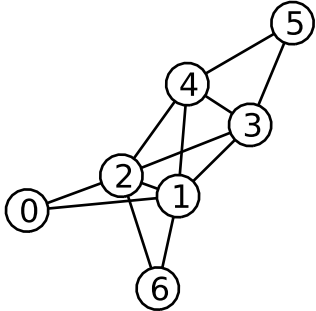
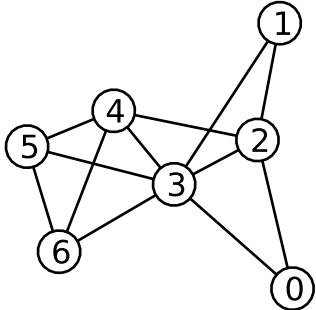
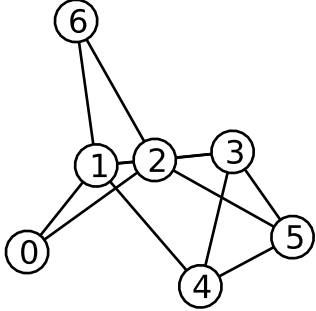
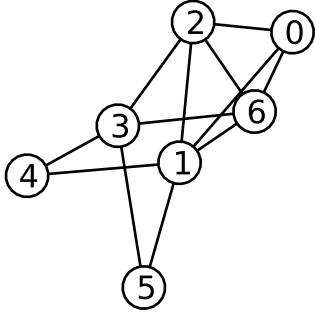
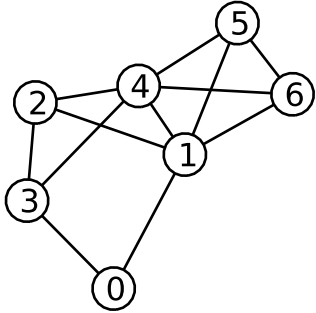
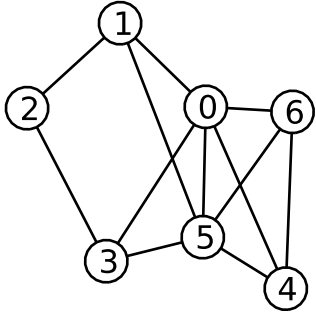


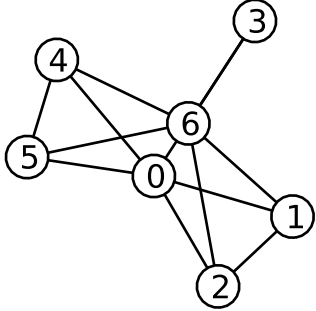
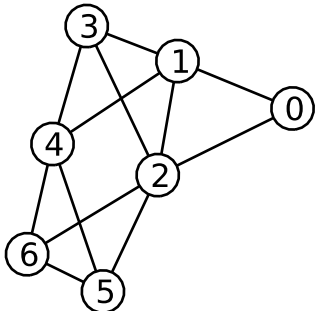
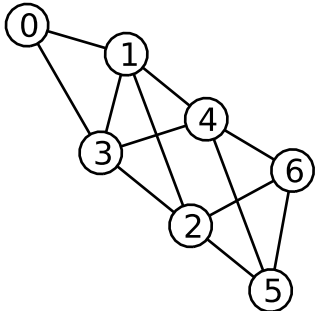
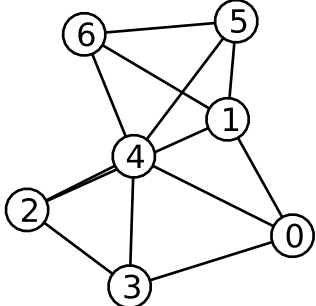
1 Selected optimal matrices

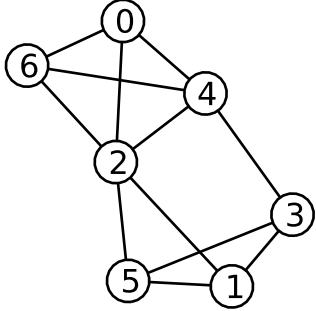
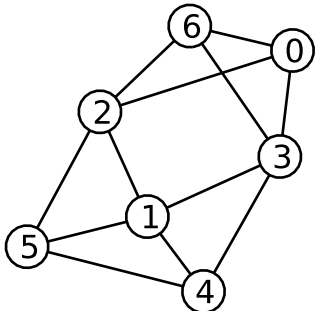
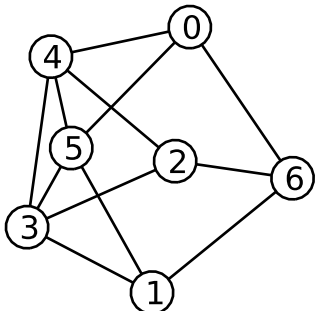
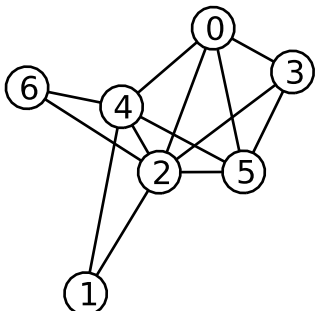
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801	$\begin{pmatrix} 0 & 1 & 1 & 0 & -1 & -1 & -1 \\ 1 & 1 & 1 & 1 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 & 0 & 0 & 0 \\ 0 & 1 & 1 & 0 & -1 & -1 & -1 \\ -1 & 0 & 0 & -1 & 0 & 0 & 0 \\ -1 & 0 & 0 & -1 & 0 & 0 & 0 \\ -1 & 0 & 0 & -1 & 0 & 0 & 0 \end{pmatrix}$	
812	$\begin{pmatrix} 0 & 1 & 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 0 & 1 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & 1 & 1 & 1 & 0 \\ 0 & 1 & 1 & 1 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 1 & 1 & 0 \\ 0 & 1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}$	
831	$\begin{pmatrix} 0 & -1 & 1 & 0 & 0 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 & 1 & -1 \\ 1 & 1 & -1 & 1 & 1 & 0 & 1 \\ 0 & 0 & 1 & 1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 1 & 1 & 1 & 0 \\ 0 & 1 & 0 & 1 & 1 & 1 & 0 \\ 0 & -1 & 1 & 0 & 0 & 0 & 0 \end{pmatrix}$	

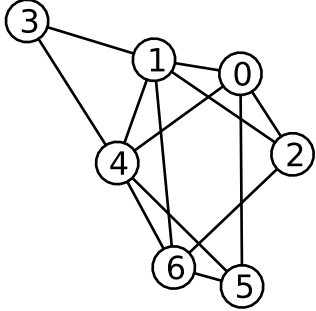
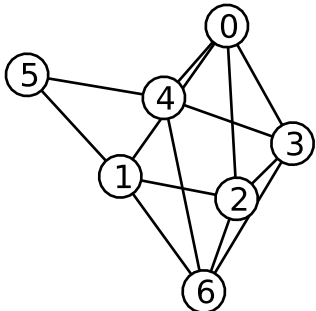
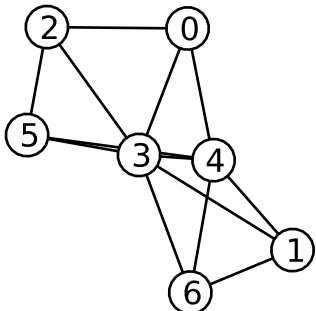
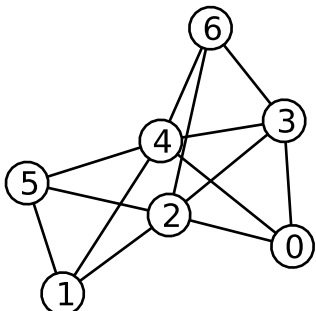
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846	$\begin{pmatrix} 0 & -2 & 0 & 0 & 1 & 0 & 0 \\ -2 & 0 & 1 & 0 & 0 & 1 & 1 \\ 0 & 1 & \frac{1}{2} & 1 & 0 & 1 & 0 \\ 0 & 0 & 1 & 2 & 1 & 2 & 0 \\ 1 & 0 & 0 & 1 & \frac{1}{2} & \frac{1}{2} & -\frac{1}{2} \\ 0 & 1 & 1 & 2 & \frac{1}{2} & 2 & 0 \\ 0 & 1 & 0 & 0 & -\frac{1}{2} & 0 & 0 \end{pmatrix}$	
863	$\begin{pmatrix} -1 & 1 & 1 & 0 & 0 & 0 & -1 \\ 1 & -1 & 0 & 1 & 0 & 1 & 1 \\ 1 & 0 & 0 & 1 & 1 & 0 & 1 \\ 0 & 1 & 1 & 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & -1 & 0 \\ -1 & 1 & 1 & 0 & 0 & 0 & -1 \end{pmatrix}$	
873	$\begin{pmatrix} 1 & -1 & -1 & 0 & 0 & 0 & 1 \\ -1 & 0 & 0 & -1 & 0 & -1 & -1 \\ -1 & 0 & 0 & -1 & 0 & -1 & -1 \\ 0 & -1 & -1 & 0 & -1 & 0 & 0 \\ 0 & 0 & 0 & -1 & 1 & -1 & 0 \\ 0 & -1 & -1 & 0 & -1 & 0 & 0 \\ 1 & -1 & -1 & 0 & 0 & 0 & 1 \end{pmatrix}$	

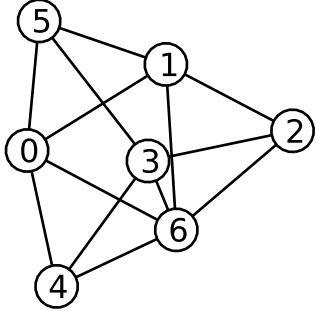
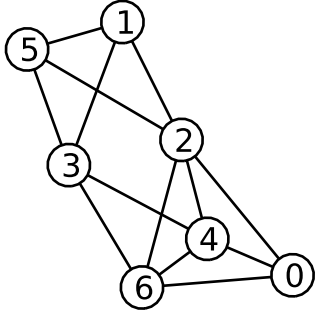
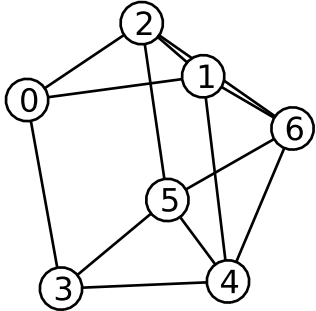
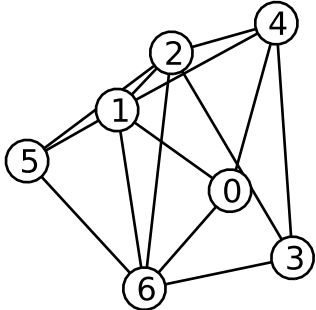
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913	$\begin{pmatrix} 1 & 1 & 1 & 1 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 & 0 & 0 & 0 \\ 1 & 1 & 2 & 2 & 1 & 1 & 1 \\ 1 & 1 & 2 & 2 & 1 & 1 & 1 \\ 0 & 0 & 1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 & 0 & 0 \end{pmatrix}$	
918	$\begin{pmatrix} 0 & -1 & -1 & 0 & 0 & 0 & 0 \\ -1 & -1 & -1 & -1 & -1 & 0 & -1 \\ -1 & -1 & -1 & -1 & -1 & 0 & -1 \\ 0 & -1 & -1 & -1 & -1 & 1 & 0 \\ 0 & -1 & -1 & -1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 1 & -1 & 0 \\ 0 & -1 & -1 & 0 & 0 & 0 & 0 \end{pmatrix}$	
924	$\begin{pmatrix} 0 & 0 & 1 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 & 0 & 0 \\ 1 & 1 & 1 & 1 & 1 & 0 & 0 \\ 1 & 1 & 1 & 2 & 2 & 1 & 1 \\ 0 & 0 & 1 & 2 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 & 1 & 1 \\ 0 & 0 & 0 & 1 & 1 & 1 & 1 \end{pmatrix}$	

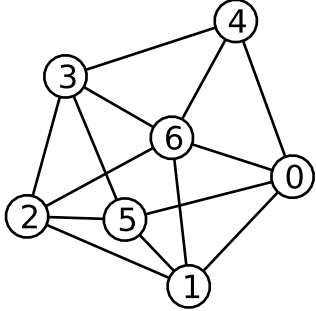
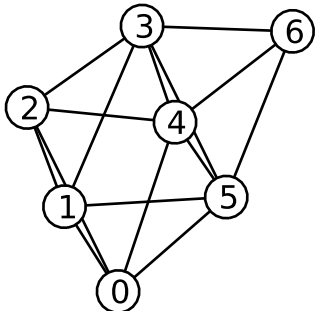
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944	$\begin{pmatrix} 1 & 1 & 1 & 0 & 0 & 0 & 1 \\ 1 & 1 & 2 & 0 & 1 & 1 & 2 \\ 1 & 2 & 1 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 0 & 1 & 1 & 1 \\ 0 & 1 & 0 & 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 & 0 \\ 1 & 2 & 1 & 1 & 0 & 0 & 1 \end{pmatrix}$	
953	$\begin{pmatrix} -2 & 1 & 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & \frac{1}{2} & 0 & 1 & \frac{1}{2} & \frac{1}{2} \\ 0 & \frac{1}{2} & 1 & 1 & 1 & 0 & 0 \\ 1 & 0 & 1 & \frac{1}{2} & 1 & 0 & 0 \\ 0 & 1 & 1 & 1 & 2 & 1 & 1 \\ 0 & \frac{1}{2} & 0 & 0 & 1 & 1 & 1 \\ 0 & \frac{1}{2} & 0 & 0 & 1 & 1 & 1 \end{pmatrix}$	
956	$\begin{pmatrix} 1 & 1 & 0 & 1 & 1 & 1 & 1 \\ 1 & 0 & 1 & 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 1 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \\ 1 & 1 & 0 & 1 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \end{pmatrix}$	

958	$\begin{pmatrix} 0 & 1 & 1 & -2 & 1 & 1 & 0 \\ 1 & 1 & 1 & 0 & 0 & 0 & 1 \\ 1 & 1 & 1 & 0 & 0 & 0 & 1 \\ -2 & 0 & 0 & -2 & 0 & 0 & -2 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 1 & 1 & -2 & 1 & 1 & 0 \end{pmatrix}$	
970	$\begin{pmatrix} 1 & 1 & 1 & 0 & 0 & 0 & 0 \\ 1 & 2 & 2 & 1 & 1 & 0 & 0 \\ 1 & 2 & 1 & 1 & 0 & -1 & -1 \\ 0 & 1 & 1 & 1 & 1 & 0 & 0 \\ 0 & 1 & 0 & 1 & 0 & -1 & -1 \\ 0 & 0 & -1 & 0 & -1 & -1 & -1 \\ 0 & 0 & -1 & 0 & -1 & -1 & -1 \end{pmatrix}$	
990	$\begin{pmatrix} \frac{1}{8} & \frac{1}{2} & 0 & \frac{1}{2} & 0 & 0 & 0 \\ -\frac{1}{2} & 0 & 2 & 1 & 1 & 0 & 0 \\ 0 & 2 & -1 & 1 & 0 & 1 & 1 \\ \frac{1}{2} & 1 & 1 & \frac{3}{2} & \frac{1}{2} & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{2} & \frac{1}{2} & 1 & 1 \\ 0 & 0 & 1 & 0 & 1 & 1 & 1 \\ 0 & 0 & 1 & 0 & 1 & 1 & 1 \end{pmatrix}$	
995	$\begin{pmatrix} 1 & 1 & 0 & 1 & 1 & 0 & 0 \\ 1 & 1 & 1 & 0 & 0 & 1 & 1 \\ 0 & 1 & -1 & 1 & 2 & 0 & 0 \\ 1 & 0 & 1 & 0 & -1 & 0 & 0 \\ 1 & 0 & 2 & -1 & -2 & 1 & 1 \\ 0 & 1 & 0 & 0 & 1 & 1 & 1 \\ 0 & 1 & 0 & 0 & 1 & 1 & 1 \end{pmatrix}$	

996	$\begin{pmatrix} 1 & 0 & 1 & 0 & 1 & 0 & 1 \\ 0 & 2 & 1 & 1 & 0 & 2 & 0 \\ 1 & 1 & 1 & 0 & 2 & 1 & 1 \\ 0 & 1 & 0 & 0 & 1 & 1 & 0 \\ 1 & 0 & 2 & 1 & -1 & 0 & 1 \\ 0 & 2 & 1 & 1 & 0 & 2 & 0 \\ 1 & 0 & 1 & 0 & 1 & 0 & 1 \end{pmatrix}$	
1002	$\begin{pmatrix} 1 & 0 & 1 & 1 & 0 & 0 & 1 \\ 0 & 0 & 1 & 1 & -1 & -1 & 0 \\ 1 & 1 & 1 & 0 & 0 & -1 & 1 \\ 1 & 1 & 0 & -1 & 1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 0 & 1 & 0 \\ 0 & -1 & -1 & 0 & 1 & 2 & 0 \\ 1 & 0 & 1 & 1 & 0 & 0 & 1 \end{pmatrix}$	
1005	$\begin{pmatrix} 1 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 1 & 0 & 1 & 0 & -1 & 1 \\ 0 & 0 & 1 & 1 & 1 & 0 & -1 \\ 0 & 1 & 1 & 2 & 1 & -1 & 0 \\ 1 & 0 & 1 & 1 & 2 & 1 & 0 \\ 1 & -1 & 0 & -1 & 1 & 2 & 0 \\ 1 & 1 & -1 & 0 & 0 & 0 & 3 \end{pmatrix}$	
1028	$\begin{pmatrix} 1 & 0 & 2 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 0 & 0 \\ 2 & 1 & 4 & -1 & 2 & 2 & 1 \\ -1 & 0 & -1 & 1 & 0 & -1 & 0 \\ 1 & 1 & 2 & 0 & 1 & 1 & 1 \\ 1 & 0 & 2 & -1 & 1 & 1 & 0 \\ 0 & 0 & 1 & 0 & 1 & 0 & 0 \end{pmatrix}$	

1060	$\begin{pmatrix} 2 & -1 & -1 & 0 & 1 & 1 & 0 \\ -1 & 2 & 1 & 1 & 1 & 0 & 1 \\ -1 & 1 & 1 & 0 & 0 & 0 & 1 \\ 0 & 1 & 0 & 1 & 1 & 0 & 0 \\ 1 & 1 & 0 & 1 & 2 & 1 & 1 \\ 1 & 0 & 0 & 0 & 1 & 1 & 1 \\ 0 & 1 & 1 & 0 & 1 & 1 & 2 \end{pmatrix}$	
1075	$\begin{pmatrix} 0 & -1 & 2 & 1 & 2 & 0 & 0 \\ -1 & 0 & 1 & 0 & 0 & 1 & -1 \\ 2 & 1 & 0 & 1 & 0 & 0 & 2 \\ 1 & 0 & 1 & 1 & 1 & 0 & 1 \\ 2 & 0 & 0 & 1 & 1 & -1 & 2 \\ 0 & 1 & 0 & 0 & -1 & 1 & 0 \\ 0 & -1 & 2 & 1 & 2 & 0 & 0 \end{pmatrix}$	
1077	$\begin{pmatrix} 0 & 0 & 1 & 1 & 1 & 0 & 0 \\ 0 & 1 & 0 & -1 & -1 & 0 & 1 \\ 1 & 0 & 1 & 1 & 0 & 1 & 0 \\ 1 & -1 & 1 & 2 & 1 & 1 & -1 \\ 1 & -1 & 0 & 1 & 0 & 1 & -1 \\ 0 & 0 & 1 & 1 & 1 & 0 & 0 \\ 0 & 1 & 0 & -1 & -1 & 0 & 1 \end{pmatrix}$	
1087	$\begin{pmatrix} 0 & 0 & 1 & 1 & 1 & 0 & 0 \\ 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ 1 & 1 & 0 & -1 & 0 & 1 & 1 \\ 1 & 0 & -1 & -1 & -1 & 0 & 1 \\ 1 & 1 & 0 & -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & 0 & 1 & 1 & 0 \\ 0 & 0 & 1 & 1 & 1 & 0 & 0 \end{pmatrix}$	

1095	$\begin{pmatrix} 2 & 1 & 0 & 0 & 1 & -1 & -1 \\ 1 & 2 & 1 & 0 & 0 & -1 & 2 \\ 0 & 1 & 1 & 1 & 0 & 0 & 2 \\ 0 & 0 & 1 & 3 & 1 & 1 & 1 \\ 1 & 0 & 0 & 1 & 1 & 0 & -1 \\ -1 & -1 & 0 & 1 & 0 & 1 & 0 \\ -1 & 2 & 2 & 1 & -1 & 0 & 5 \end{pmatrix}$	
1099	$\begin{pmatrix} 1 & 0 & 1 & 0 & 1 & 0 & 1 \\ 0 & 2 & 1 & 1 & 0 & 2 & 0 \\ 1 & 1 & 1 & 0 & 2 & 1 & 2 \\ 0 & 1 & 0 & 0 & 1 & 1 & 1 \\ 1 & 0 & 2 & 1 & -1 & 0 & -1 \\ 0 & 2 & 1 & 1 & 0 & 2 & 0 \\ 1 & 0 & 2 & 1 & -1 & 0 & -1 \end{pmatrix}$	
1104	$\begin{pmatrix} -1 & 2 & 2 & 3 & 0 & 0 & 0 \\ 2 & -1 & 2 & 0 & 3 & 0 & 3 \\ 2 & 2 & -1 & 0 & 0 & 3 & -3 \\ 3 & 0 & 0 & -1 & 2 & 2 & 0 \\ 0 & 3 & 0 & 2 & -1 & 2 & -3 \\ 0 & 0 & 3 & 2 & 2 & -1 & 3 \\ 0 & 3 & -3 & 0 & -3 & 3 & -6 \end{pmatrix}$	
1146	$\begin{pmatrix} -1 & 1 & 0 & 0 & -1 & 0 & -3 \\ 1 & -2 & 1 & 0 & 1 & -1 & 4 \\ 0 & 1 & -2 & 1 & 1 & 1 & -4 \\ 0 & 0 & 1 & -1 & -1 & 0 & 3 \\ -1 & 1 & 1 & -1 & -2 & 0 & 0 \\ 0 & -1 & 1 & 0 & 0 & -1 & 1 \\ -3 & 4 & -4 & 3 & 0 & 1 & -19 \end{pmatrix}$	

1167	$\begin{pmatrix} 0 & 1 & 0 & 0 & 1 & 2 & 1 \\ 1 & -1 & 1 & 0 & 0 & -1 & -1 \\ 0 & 1 & -1 & 1 & 0 & 1 & 2 \\ 0 & 0 & 1 & -1 & 1 & 1 & -1 \\ 1 & 0 & 0 & 1 & 0 & 0 & 1 \\ 2 & -1 & 1 & 1 & 0 & -1 & 0 \\ 1 & -1 & 2 & -1 & 1 & 0 & -2 \end{pmatrix}$	
1205	$\begin{pmatrix} \frac{3}{5} & \frac{1}{10} & -\frac{1}{2} & 0 & 1 & 1 & 0 \\ \frac{1}{10} & \frac{3}{5} & \frac{1}{2} & 1 & 0 & 1 & 0 \\ -\frac{1}{2} & \frac{1}{2} & 1 & 1 & -1 & 0 & 0 \\ 0 & 1 & 1 & 3 & 1 & 1 & 3 \\ 1 & 0 & -1 & 1 & 3 & 1 & 3 \\ 1 & 1 & 0 & 1 & 1 & 3 & -1 \\ 0 & 0 & 0 & 3 & 3 & -1 & 7 \end{pmatrix}$	
1212	$\begin{pmatrix} 0 & 4 & -2 & 3 & 2 & 1 & 0 \\ 4 & -1 & 1 & 0 & 0 & 1 & 4 \\ -2 & 1 & -1 & 1 & 0 & 0 & -2 \\ 3 & 0 & 1 & -1 & 1 & 0 & 3 \\ 2 & 0 & 0 & 1 & 0 & 1 & 2 \\ 1 & 1 & 0 & 0 & 1 & 0 & 1 \\ 0 & 4 & -2 & 3 & 2 & 1 & 0 \end{pmatrix}$	