## Attendance Quiz for Lecture 16

NAME: (print!) $\qquad$

E-MAIL ADDRESS: (print!) $\qquad$

1. Perform one iteration in solving the following transportation problem, where $\mathbf{s}$ is the supply vector, $\mathbf{d}$ is the demand vector, and $\mathbf{C}$ is the cost matrix between the supply sites and the demand sites.

$$
\mathbf{C}=\left[\begin{array}{llll}
5 & 2 & 3 & 6 \\
2 & 7 & 7 & 4 \\
1 & 3 & 6 & 9
\end{array}\right] \quad, \quad \mathbf{s}=\left[\begin{array}{c}
100 \\
80 \\
140
\end{array}\right] \quad, \quad \mathbf{d}=\left[\begin{array}{c}
60 \\
60 \\
80 \\
120
\end{array}\right] .
$$

starting from the following basic feasible solution obtained by Vogel's method (last time, in attendance quiz 15)

$$
\left[\begin{array}{cccc}
0 & 20 & 80 & 0 \\
0 & 0 & 0 & 80 \\
60 & 40 & 0 & 40
\end{array}\right]
$$

