(d)

Imports: 90

Minimize $50X_{11} + 90X_{12} + 70X_{13}$
$+ 60X_{21} + 95X_{22} + 50X_{23}$

s.t. $X_{11} + X_{12} + X_{13} = 60$
$X_{21} + X_{22} + X_{23} = 50$
$X_{11} + X_{21} \leq 60$
$X_{12} + X_{22} \leq 45$
$X_{13} + X_{23} \leq 30$
all $X_{ij} \geq 0$

Exports

Minimize $150X_{14} + 180X_{15} + 130X_{24} + 200X_{25}$

s.t. $X_{14} + X_{24} \leq 80$
$X_{15} + X_{25} \leq 55$
$X_{14} + X_{15} = 60$
$X_{24} + X_{25} = 50$
all $X_{ij} \geq 0$