The Diet Problem

Peg and Al Fundy have a limited food budget, so Peg is trying to feed the family as cheaply as possible. However, she still wants to make sure her family members meet their daily nutritional requirements. Peg can buy two foods: Beef and Potatoes. Beef sells for $7 per pound, and each pound contains 3 units of vitamin A and 1 unit of vitamin C. Potatoes sell for $1 per bound and contains 1 unit of each vitamin. Each day, the family needs at least 12 units of vitamin A and 6 units of vitamin C.

Formulate the Fundys problem as a LP.