Coursenote corrections

1. Page 9 - In both tables, entry \((a_1, A_1)\) should be 1 instead of 12.

2. Page 15
   (a) Equation (1.18) should be \(E[XY] = \frac{1}{2}y_1 + \cdots\).
   (b) Equation (1.22) should be \(\frac{1}{2}x_1 + \frac{5}{2}x_1 + \cdots\).

3. Page 33
   (a) In 2nd tableau, basic variables should be \(\{y'_4, y'_5, y'_1\}\)
   (b) In 3rd tableau, basic variables should be \(\{y'_4, y'_3, y'_1\}\)
   (c) In 4th tableau, basic variables should be \(\{y'_2, y'_3, y'_1\}\), and the entry in column \(y'_5\) and row \(y'_1\) should be \(-\frac{1}{12}\).

4. Page 48
   (a) In line -7 (7th line from bottom), the first equilibrium pair should be \(((1, 0), (1, 0))\)
   (b) In line 5, \(X^*BY^* = 1\) whilst \(X^*BY = 10\) . . .
   (c) In line 9, \(X^*B = (10, 1)\) . . .
   (d) In Equation (1,172), \(X^*B(1, 0) = 10 > X^*BY \) . . .

5. Page 50, in Equation (1.181), \((a_{ij}, b_{ij})\) should be \((a_{ij}, b_{ij})\).

6. Page 54, Axiom 4 should read “If \((c_1, c_2) \in C\) implies that \((c_2, c_1) \in C, \ldots\)”

7. Page 55, Example 1.10.2 should read “For the game in Example 1.9.1, we can take the point \((1,-3)\) as the status quo point (why?). The negotiation set NS is illustrated in Figure 1.6. The maximum value of \((u - 1)(v + 3)\) over NS occurs at \((5,2)\). Thus . . . .”

8. Page 57, in lines -14 and -15, replace the sentence “Thus, none of the concepts . . .” by “Thus, this solution does distinguish Player I’s stronger threat potential.’’

9. Page 59
   (a) in line 7, \(\left(\frac{5}{2}, \frac{7}{2}\right)\) should be \(\left(\frac{11}{2}, \frac{7}{2}\right)\).
   (b) in line 14, replace \(F_1(X, Y_s) \leq F_1(X, Y_s)\) by \(F_1(X, Y_s) \leq F_1(X_s, Y_s)\)

10. Page 63
    (a) Equation (1.218) should be \(x_1 + x_2 + x_3 = 100\)
    (b) Equation (1.219) should be \(x_1 + x_2 \geq v(\{1,2\}) = 100\) [New!]
    (c) Equation (1.220) should be \(x_1 + x_3 \geq v(\{1,3\}) = 100\) [New!]
(d) line 10 should read “$x = (100, 0, 0)$. Thus, the core of the game in this case
is $(100, 0, 0)$.

11. Page 66, lines 2 and 10, $ACH$ should be $A \subset H$, and Equation (1.240) should be
“$x_1 + x_2 + x_3 = v(\{1, 2, 3\}) = 1$”. [New!]