Figures

1.1 Marshall’s diagram 30
1.2 Cournot’s demand curve 31
1.3 Cournot’s scissors diagram and tax incidence analysis 32
2.1 Walras 39
2.2 Marshall 39
2.3 Marshall stable Walras unstable 39
2.4 Marshall unstable Walras stable 39
3.1 An indifference map 44
4.1 The tangency points for a given isoquant and two budget lines 51
4.2 Lerner-Hicks diagram relating relative factor prices to relative factor intensities 53
5.1 Hicks decomposition 59
5.2 Slutsky decomposition 60
6.1 Engel curves 65
6.2 Working-Engel curves 67
7.1 Isoquant map under homotheticity 70
8.1 Short-run unit cost curves 74
8.2 Long-run and short-run average cost curves 75
9.1 Labor demand and supply 81
9.2 Income distribution 82
10.1 Hicks’s classification of technical change 84
10.2 Hicks-neutral technical change 85
10.3 Harrod-neutral technical change 87
11.1 Three matrix games 90
11.2 Best reply 91
11.3 Nash equilibrium 92
11.4 Nash equilibrium in mixed strategies 93
11.5 Prisoners’ Dilemma and Stag Hunt 93
12.1 The Marshallian measure of consumer surplus 98
12.2 Hicks’s four measures 99
12.3 The equivalent measures are not superior to the compensating measures 102
13.1 The Harberger triangle 105
13.2 The Tullock trapezoid 108
Famous figures and diagrams in economics

14.1 Construction of community indifference curves through a given point \(B_0\) 111
14.2 Compensation tests with crossing and non-crossing community indifference curves 113
15.1 The textbook diagram 122
15.2 The Buchanan/Stubblebine diagram 123
16.1 The Auspitz and Lieben constructs 130
16.2 Joan Robinson’s construction updated 132
17.1 Reaction curves – linear demand case with constant and identical costs 138
17.2 Reaction curves – stability analysis and comparison of market performances 141
17.3 Reaction curves – strategic complements 143
18.1 Monopoly 147
18.2 Pure competition 148
18.3 The large group 150
18.4 The small group 151
19.1 The kinked demand curve 155
20.1A The individual labour supply decision 162
20.1B The individual labour supply curve 163
20.2A Lionel Robbins’s first diagram 165
20.2B Lionel Robbins’s second diagram 166
20.3 Henry Phelps Brown’s version with axes inverted 167
20.4 Backward-bending labour supply curve (conservative version) 168
21.1 Allocation of land in von Thünen’s model around a single city (top half) and as distorted by an additional small town and river (bottom half) 171
21.2 Lösch’s market areas: circles and hexagons 172
21.3 Market boundaries under the block metric 176
22.1 Hotelling’s line 180
23.1 Ezekiel’s diagram 185
24.1 Straight line \(w - r\) relationships for neoclassical parable 194
24.2 Non-linear \(w - r\) relationships and capital values with reswitching and capital reversing 196
25.1 The Markowitz mean-variance diagram 200
26.1 Rent-seeking import restrictions 206
27.1 The logistic curve \(y(t)\) 210
28.1 Graph with five vertices 213
28.2 Decision tree 213
28.3 Local and long-distance telephone network 214
28.4 A random graph 214
<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.5</td>
<td>Local network of collaboration of Joseph E. Stiglitz in the 1990s</td>
</tr>
<tr>
<td>28.6</td>
<td>Network of fifteenth-century Florentine marriages</td>
</tr>
<tr>
<td>29.1</td>
<td>The circular flow diagram of contemporary textbooks</td>
</tr>
<tr>
<td>29.2</td>
<td>Samuelson’s circular flow diagram</td>
</tr>
<tr>
<td>29.3</td>
<td>The Phillips machine</td>
</tr>
<tr>
<td>29.4</td>
<td>Knight’s wheel of wealth</td>
</tr>
<tr>
<td>29.5</td>
<td>Quesnay’s <em>Tableau économique</em></td>
</tr>
<tr>
<td>30.1</td>
<td>The unit simplex</td>
</tr>
<tr>
<td>31.1</td>
<td>The Edgeworth box</td>
</tr>
<tr>
<td>31.2</td>
<td>The contract curve</td>
</tr>
<tr>
<td>31.3</td>
<td>A disequilibrium price ratio</td>
</tr>
<tr>
<td>31.4</td>
<td>The price-taking equilibrium</td>
</tr>
<tr>
<td>32.1</td>
<td>Two pairs of traders</td>
</tr>
<tr>
<td>32.2</td>
<td>The new limit to the contract curve</td>
</tr>
<tr>
<td>32.3</td>
<td>Final settlement with many traders</td>
</tr>
<tr>
<td>33.1</td>
<td>The production possibilities curve</td>
</tr>
<tr>
<td>33.2</td>
<td>A ruled surface: three goods, two inputs</td>
</tr>
<tr>
<td>33.3</td>
<td>Traded and non-traded goods</td>
</tr>
<tr>
<td>33.4</td>
<td>Multi-country schedule</td>
</tr>
<tr>
<td>34.1</td>
<td>Graaff’s depiction of Samuelson’s 1947 ‘possibility locus’</td>
</tr>
<tr>
<td>34.2</td>
<td>Samuelson’s 1950 depiction of crossing ‘utility possibility functions’</td>
</tr>
<tr>
<td>34.3</td>
<td>Samuelson’s 1955 depiction of a utility possibility set with superimposed social indifference curves</td>
</tr>
<tr>
<td>34.4</td>
<td>Allais’s 1943 depiction of a ‘surface of maximum return’</td>
</tr>
<tr>
<td>34.5</td>
<td>Allais’s 1947 depiction of a ‘curve of maximum social return’</td>
</tr>
<tr>
<td>34.6</td>
<td>Allais’s 1978 depiction of the frontier separating possible from impossible situations</td>
</tr>
<tr>
<td>35.1</td>
<td>Factor price frontier with three goods and two factors</td>
</tr>
<tr>
<td>35.2</td>
<td>Factor market equilibrium with three goods and two factors</td>
</tr>
<tr>
<td>35.3</td>
<td>Effect of a product price change on the factor price frontier with three goods and two factors</td>
</tr>
<tr>
<td>36.1</td>
<td>Pareto efficiency</td>
</tr>
<tr>
<td>37.1</td>
<td>Marshall’s trade diagram</td>
</tr>
<tr>
<td>37.2</td>
<td>Marshall’s multiple equilibria diagram</td>
</tr>
<tr>
<td>37.3</td>
<td>The gross substitute system</td>
</tr>
<tr>
<td>38.1</td>
<td>Second best policy in a triangle</td>
</tr>
<tr>
<td>38.2</td>
<td>Third best policy</td>
</tr>
<tr>
<td>39.1</td>
<td>Offer curves of H and G derived from their terms of trade</td>
</tr>
</tbody>
</table>
Famous figures and diagrams in economics

39.2 Offer curves of H and G determine the equilibrium traded quantities 297
40.1 Cost minimization 301
40.2 Equilibrium in the production box 301
40.3 A tariff on product 1 and factor prices 302
41.1 Prices of goods and factors in the Lerner diagram 306
41.2 Factor intensities and allocations 307
41.3 Effects of increase in price or technology for good X 308
41.4 Two cones of diversification 309
42.1 Gains from trade 312
42.2 The welfare loss due to a tariff 314
43.1 Autarky equilibrium in the H-O model 318
43.2 Two-country equilibrium in the H-O model 320
44.1 The integrated world equilibrium diagram 324
45.1 G’s optimal tariff identified on H’s offer curve 329
45.2 The possibility of a zero optimal tariff 330
46.1 45 degree or Keynesian cross diagram 338
46.2 Injections–withdrawals or Keynesian cross diagram 340
46.3 Patinkin diagram 341
46.4 The Z/D-N diagram 343
46.5 The AS-AD diagram 344
47.1 Hicks’s CC-LL diagram (September 1936) 349
47.2 From Hicks (1937) 351
47.3 From Lutfalla (1937) 352
47.4 From Hansen (1949) 353
48.1 Mundell’s diagram: monetary policy 357
48.2 Mundell’s diagram: fiscal policy 358
49.1 The comparative statics of the AD-AS model 367
50.1 Wage- and price-Phillips curves 378
50.2 Expectations-augmented Phillips curves for various expected inflation rates 379
50.3 An IS-LM model closed by a price-Phillips curve 382
50.4 An AD-AS model closed by a price-Phillips curve 383
51.1 Relation between unemployment and vacancy rates in a UV space for Great Britain, 1946–1956 394
51.2 Idealized UV relations (with v/s = adjusted vacancy rate) 394
52.1 Marshall’s demand and supply curve for money apparatus 402
52.2 Modigliani’s demand curve for ‘money to hold’ 404
53.1 Nominal aggregate demand expansion with a constant marginal cost results in an increase in output and no change in price in the short run 407
Figures

53.2 Nominal aggregate demand expansion with upward
shifting marginal cost results in an increase in output
and no change in price in the long run 410
54.1 The Laffer curve 413
55.1 Fisher’s 1907 diagram of intertemporal utility
maximization 422
56.1 The Swan diagram 427
56.2 The Solow diagram 429
57.1 The Lorenz curve: $L(p)$ 433
57.2 Absolute inequality curve: $\phi(p)$ 435
57.3 Generalized Lorenz curve: $\mu L(p)$ 437
58.1 The Kuznets curve 440
58.2 The environmental Kuznets curve 442