| | |
|---|---|
| **E 1.6**:2 bounded | |
| maximum | |
| semicont | |
| **A** 6 a | |
| b | |
| **A** 7 a | |
| b | |
| c | |
| d | |
| e | |
| **A** 8 a | |
| b | |

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|---|---|
| **E 2.1**:3 if | |
| only if | |
| **E 2.1**:5 Banach | |
| nonseparable | |
| **E 2.1**:6 $c_0$ closed | |
| $c$ closed | |
| $c_0$ separable | |
| $c$ separable | |
| $c = \mathbb{F}e + c_0$ | |
| **E 2.1**:7 seminorm | |
| null space | |
| $\|x\|_Q = \|Qx\|$ | |
| **E 2.1**:10 Banach | |
| equivalent | |
| **E 2.2**:1 decomposition | |
| $\alpha > 0$ | |
| **E 2.2**:2 bdd + $P^2 = P$ | |
| conversely | |
| commutes | |
| **A** 9 | |
| **A** 10 | |
| **A** 11 | |
| **A** 12 a | |
| b | |
| **A** 13 | |

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|---|---|
| **E 2.3**:2 $\ell^1$ onto $(c_0)^*$ | |
| $c^*$ | |
| $c_0$ not refl | |
| $c$ not refl | |
| **E 2.3**:4 | |
| **E 2.3**:5 if | |
| only if | |
| **E 2.3**:7 $T$ bdd | |
| $T^*$ | |
| **E 2.3**:8 | |
| **E 2.4**:4 if | |
| only if | |
| **E 2.4**:5 | |
| **E 2.4**:7 Show | |
| Explain | |
| **E 2.4**:8 $Y$ | |
| $X/Y$ | |
| **A** 14 a | |
| b | |
| **E 2.5**:3 metrizable | |
| separable | |
| **A** 15 a | |
| b | |
| c | |
| **A** 16 a | |
| b | |

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|---|---|
| **E 3.1**:7 | |
| **E 3.1**:8 closed, bounded, convex | |
| no vector with max norm | |
| **E 3.1**:9 $0 \in$ weak closure | |
| no sequence | |
| not first countable | |
| **E 3.1**:10 | |
| **E 3.1**:11 | |
| **E 3.1**:13 | |
| **A** 17 | |
| **E 3.2**:1 if | |
| only if | |
| **E 3.2**:2 | |
| **E 3.2**:3 | |
| **E 3.2**:4 | |
| **E 3.2**:5 distance | |
| Conversely | |
| **E 3.2**:10 eigenvector | |
| either | |
| **E 3.2**:11 converges | |
| when $T = T^*$ | |
| **E 3.2**:15 unique $T^*$ | |
| conjugate linear isometry | |
| satisfies | |

| | |
|---|---|
| **A** 18 (a) | |
| **A** 18 (b) | |
| **E 4.1**:10 | |
| **A** 19 | |
| **A** 20 (a) | |
| **A** 20 (b) | |
| **E 3.3**:3 | |
| **E 3.3**:4 if | |
| only if | |
| **E 3.3**:5 polar decomp | |
| characterize | |
| **E 3.3**:6 | |
| **E 3.3**:7 if | |
| only if | |