Section covered

- 1.1, 1.2, 1.3 (except Graphic Sequences) and 1.4 (except Vertex Degrees).
- 2.1 (except Disjoint Spanning Trees) 2.2 (only Enumeration of Trees).
- 3.1 (except Dominating Sets).
- 4.1 (except Dominating Sets), 4.3.
- 6.1, 6.3 (except crossing number).

Theorems

You will asked to prove one these theorem. If the theorem has a name, you may also be asked to state the theorem.

- 1. Theorem (1.2.18)
- 2. Theorem (1.2.26)
- 3. Degree-Sum Formula (1.3.3)
- 4. Theorem (1.3.23)
- 5. Proposition (1.4.30)
- 6. Theorem (2.1.4)
- 7. Cayley's Formula (2.2.3)
- 8. Theorem (3.1.10)
- 9. Hall's Theorem (3.1.11)
- 10. Theorem (3.1.16)
- 11. Theorem (4.1.5)
- 12. Theorem (4.1.9)
- 13. Theorem (4.1.11)
- 14. Max-flow Min-cut (4.3.11)
- 15. Theorem (6.1.16)
- 16. Euler's Formula (6.1.21)
- 17. Theorem (6.1.23)
- 18. Five Color Theorem (6.3.1)