- 1. Textbook 4.12. Use the principal value of $z^{1/2}$.
- 2. Textbook 4.15. We've done parts of this exercise here and there, but it's an important result and worth doing again in this more general form.
- 3. Textbook 4.22.
- 4. Textbook 4.25 (you may assume the result of exercise of 4.23)
- 5. Textbook 4.27. It is implicit in the problem statement that $r \neq |a|$.
- 6. Textbook 4.35.

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