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## Angular Momentum – Problem 1

Consider the angular momentum operators defined in class.

- a) Calculate the following commutators: [Â<sub>+</sub>, Â<sub>z</sub>], [Â<sub>+</sub>, Â<sub>-</sub>], and [Â<sub>+</sub>, Â<sup>2</sup>].
  b) Which of these angular momentum operators are hermitian?