$$A_{1} = \frac{3+i6}{-2-i3} = (3+i6) \cdot (-2-i3)^{-1} = (3+i6) \cdot \left(\frac{-2}{(2)^{2}+(-3)^{2}} + i\left(\frac{-(-3)}{(-2)^{2}+(-3)^{2}}\right)\right)$$

$$= (3+i6) \cdot \left(\frac{-2}{A_{3}} + i\frac{3}{A_{3}}\right) = \left(3 \cdot \frac{-2}{A_{3}} - 6 \cdot \frac{3}{A_{3}}\right) + i\left(3 \cdot \frac{3}{A_{3}} + 6 \cdot \frac{-2}{A_{3}}\right)$$

$$= \left(-\frac{6}{A_{3}} - \frac{A_{3}}{A_{3}}\right) + i\left(\frac{4}{A_{3}} - \frac{A_{2}}{A_{3}}\right) = \left(-\frac{2A_{3}}{A_{3}}\right) + i\left(3 \cdot \frac{3}{A_{3}} + 6 \cdot \frac{-2}{A_{3}}\right)$$

$$= \left(-\frac{A_{3}}{A_{3}} + i\left(\frac{A_{3}}{A_{3}} - \frac{A_{2}}{A_{3}}\right) + i\left(\frac{A_{3}}{A_{3}} + i\left(\frac{-2A_{3}}{A_{3}}\right) + i\left(\frac{-2A_{3}}{A_{3}} + i\left(\frac{-2A_{3}}{A_{3}} + i\left(\frac{-2A_{3}}{A_{3}}\right) + i\left(\frac{-2A_{3}}{A_{3}} + i\left(\frac{-2$$