

Dividing Complex Numbers

To divide by a complex number, write the expression as a fraction and multiply both the numerator and the denominator by the complex conjugate of the denominator.

$$\frac{5}{2-3i} = \frac{5}{2-3i} \cdot \frac{2+3i}{2+3i} = \frac{10+15i}{4-9i^2} = \frac{10+15i}{13}$$

TRY: $\frac{-4}{3-2i}$