

$$A := 1 + 2 \cdot 1i$$

$$B := 3 - 4 \cdot 1i$$

$$A + B = 4 - 2i$$

$$A \cdot B = 11 + 2i$$

$$B = 3 - 4i$$

$$cdf := 56$$

$$A = 1 + 2i$$

$$A := \begin{bmatrix} 1 & 2 & 3 \\ 1 & 4 & 5 \\ 6 & 2 & 2 \end{bmatrix}$$

$$B := \begin{bmatrix} 1 & 2 & 3 \\ 1 & 4 + 1i & 5 \\ 6 & 2 & 2 \end{bmatrix}$$

$$\|A\| = -12$$

$$\|B\| = -12 - 16i$$

$$\det(A) = -12$$

$$\det(B) = -12 - 16i$$

$$cdf \cdot \det(B) = -672 - 896i$$