

$$\text{sol} = \text{Solve}\left[x^2 + \frac{-54 - 22 i}{16 + 17 i} x + 1 == 0\right]$$

$$\left\{\left\{x \rightarrow \left(-\frac{16}{545} + \frac{17 i}{545}\right) \left((-27 - 11 i) + \sqrt{641 + 50 i}\right)\right\},\right.$$

$$\left.\left\{x \rightarrow \left(\frac{16}{545} - \frac{17 i}{545}\right) \left((27 + 11 i) + \sqrt{641 + 50 i}\right)\right\}\right\}$$

Abs[x /. sol] // N

{0.434797, 2.29993}

arg = Arg[x /. sol[[2]]] // N

-0.590547

arg / Degree

-33.8358