

2 $z + \bar{z}$

Don't know.

Counter-clockwise rotation by $\pi/2$

Q12: Let z be complex number with absolute value 1 and argument φ . For which φ is z located in the second quadrant?



Q14: With $\lambda = 1 + iy$, for which y is the argument of λ negative?

u = -1u = 0u = 1y = 2

Q15: The argument of the complex number $-i\sin l$ $2\pi/3$ $-2\pi/3$ $-\pi/3$ $\pi/3$

Q16 (multiple): Let z be a complex number z = x + iywith absolute value 1 and angle φ . For which φ is z located in the third quadrant?

> $4\pi/3$ $-4\pi/3$ $-5\pi/4$ $-4\pi/5$

Q17 (multiple): With $\lambda = x - i$, for which x is the argument of λ negative?

x = -1x = 0x = 1x = 2

Q18: What is the real part of e^{-i} ? 1 -1 $\cos(1)$

Q19: The statement $|e^{i\varphi}| = 1$ for all φ ... is false

is true

sin(1)