



Math worksheet on 'Complex Numbers - Rectangular Form to Modulus and Argument (Radians) (Level 1)'. Part of a broader unit on 'Complex Numbers'

Learn online: app.mobius.academy/math/units/complex_numbers/

1 Find the modulus and argument (r, θ) in radians of this complex number $-6 - 6i$	a (8.9, $1.4\pi \text{ rad}$)	b (8.5, $1.3\pi \text{ rad}$)
	c (8.5, $\frac{7}{18}\pi \text{ rad}$)	d (7.8, $\frac{5}{18}\pi \text{ rad}$)
	e (10, $0.7\pi \text{ rad}$)	f (7.8, $\frac{2}{9}\pi \text{ rad}$)

2 Find the modulus and argument (r, θ) in radians of this complex number $5 + 3i$	a (7.8, $\frac{5}{18}\pi \text{ rad}$)	b (6.7, $1.6\pi \text{ rad}$)
	c (7.1, $1.8\pi \text{ rad}$)	d (9.4, $1.7\pi \text{ rad}$)
	e (5.8, $0.2\pi \text{ rad}$)	f (8.6, $0.3\pi \text{ rad}$)

3 Find the modulus and argument (r, θ) in radians of this complex number $2 + 4i$	a (3.2, $0.1\pi \text{ rad}$)	b (6.3, $1.4\pi \text{ rad}$)
	c (3.2, $0.9\pi \text{ rad}$)	d (3.6, $0.8\pi \text{ rad}$)
	e (4.5, $0.4\pi \text{ rad}$)	f (5, $1.3\pi \text{ rad}$)

4 Find the modulus and argument (r, θ) in radians of this complex number $4 - 3i$	a (5, $1.7\pi \text{ rad}$)	b (4.2, $1.8\pi \text{ rad}$)
	c (5.8, $1.7\pi \text{ rad}$)	d (3.2, $1.9\pi \text{ rad}$)
	e (4.2, $0.3\pi \text{ rad}$)	f (5, $1.8\pi \text{ rad}$)

5 Find the modulus and argument (r, θ) in radians of this complex number $-6 + 3i$	a (11.2, $0.9\pi \text{ rad}$)	b (13.4, $0.1\pi \text{ rad}$)
	c (8.6, $0.8\pi \text{ rad}$)	d (13.4, $0.9\pi \text{ rad}$)
	e (7.6, $0.9\pi \text{ rad}$)	f (6.7, $0.9\pi \text{ rad}$)

6 Find the modulus and argument (r, θ) in radians of this complex number $2 - 5i$	a (5.4, $1.6\pi \text{ rad}$)	b (4.5, $0.4\pi \text{ rad}$)
	c (4.5, $1.6\pi \text{ rad}$)	d (6.3, $0.4\pi \text{ rad}$)
	e (6, $1\frac{1}{2}\pi \text{ rad}$)	f (6.1, $\frac{5}{9}\pi \text{ rad}$)

7 Find the modulus and argument (r, θ) in radians of this complex number $4 + 5i$	a (7.2, $0.2\pi \text{ rad}$)	b (10.8, $0.2\pi \text{ rad}$)
	c (12.2, $0.2\pi \text{ rad}$)	d (6.7, $0.1\pi \text{ rad}$)
	e (10, $0.2\pi \text{ rad}$)	f (6.4, $0.3\pi \text{ rad}$)