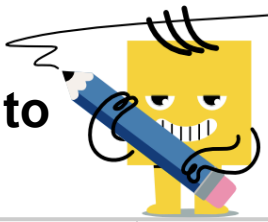
Name

Complex Numbers - Rectangular Form to Modulus and Argument (Radians)



1 Find the modulus and argument (r, θ) in radians of this complex number

$-6 + 4i$

A $(8.9, 1.9\pi\ rad)$
B $(9.4, 1.8\pi\ rad)$
C $(7.8, 1\frac{7}{9}\pi\ rad)$
D $(8.6, 1.8\pi\ rad)$
E $(10.8, 1.8\pi\ rad)$
F $(7.2, 0.8\pi\ rad)$

2 Find the modulus and argument (r, θ) in radians of this complex number

$-4 + 4i$

A $(4.5, 0.6\pi\ rad)$
B $(7.6, 0.9\pi\ rad)$
C $(7.8, \frac{7}{9}\pi\ rad)$
D $(6.4, 0.8\pi\ rad)$
E $(5.7, 0.8\pi\ rad)$
F $(5.8, 0.7\pi\ rad)$

3 Find the modulus and argument (r, θ) in radians of this complex number

$2 + 5i$

A $(2, 2\pi\ rad)$
B $(1, 2\pi\ rad)$
C $(5.4, 0.4\pi\ rad)$
D $(3.6, 0.7\pi\ rad)$
E $(3.6, 0.8\pi\ rad)$
F $(1, 1\frac{1}{2}\pi\ rad)$

4 Find the modulus and argument (r, θ) in radians of this complex number

$-3 + 3i$

A $(6.7, 0.6\pi\ rad)$
B $(4.2, 0.8\pi\ rad)$
C $(7.2, 0.3\pi\ rad)$
D $(6.7, 1.6\pi\ rad)$
E $(7.1, 1.8\pi\ rad)$
F $(8.1, 1\frac{2}{3}\pi\ rad)$

5 Find the modulus and argument (r, θ) in radians of this complex number

$-5 - 6i$

A $(5, 0.3\pi\ rad)$
B $(5.1, 0.6\pi\ rad)$
C $(5.8, 1.3\pi\ rad)$
D $(5, 1\frac{1}{2}\pi\ rad)$
E $(7.8, 1\frac{5}{18}\pi\ rad)$
F $(3.6, 0.3\pi\ rad)$

6 Find the modulus and argument (r, θ) in radians of this complex number

$-5 + 3i$

A $(5.8, 0.7\pi\ rad)$
B $(3.2, 0.6\pi\ rad)$
C $(5.8, 0.8\pi\ rad)$
D $(5, 1\frac{1}{2}\pi\ rad)$
E $(7.8, \frac{7}{9}\pi\ rad)$
F $(6.4, 0.7\pi\ rad)$

7 Find the modulus and argument (r, θ) in radians of this complex number

$3 + 5i$

A $(6.4, 0.3\pi\ rad)$
B $(5.8, 0.3\pi\ rad)$
C $(10, 0.2\pi\ rad)$
D $(11.7, 0.2\pi\ rad)$
E $(12, 0.2\pi\ rad)$
F $(7.2, 0.2\pi\ rad)$

8 Find the modulus and argument (r, θ) in radians of this complex number

$-4 + 3i$

A $(4.5, 1.1\pi\ rad)$
B $(4.5, 1.4\pi\ rad)$
C $(6.3, 0.6\pi\ rad)$
D $(6.4, 1.3\pi\ rad)$
E $(5.8, 1.2\pi\ rad)$
F $(5, 0.8\pi\ rad)$