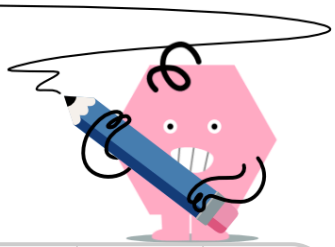
Name

Complex Numbers - Rectangular to Exponential Form (Radians)



1 Find the exponential form in radians of this complex number

$2 - 6i$

A	B	C
$7.6e^{0.4\pi i}$	$5.1e^{1.6\pi i}$	$7.3e^{1.6\pi i}$
D	E	F
$6.4e^{1.7\pi i}$	$6.3e^{1.6\pi i}$	$6e^{1\frac{1}{2}\pi i}$

2 Find the exponential form in radians of this complex number

$4 + 3i$

A	B	C
$9e^{2\pi i}$	$8e^{2\pi i}$	$5.8e^{1.8\pi i}$
D	E	F
$4.2e^{0.3\pi i}$	$5e^{0.2\pi i}$	$5e^{2\pi i}$

3 Find the exponential form in radians of this complex number

$5 - 4i$

A	B	C
$6.7e^{1.1\pi i}$	$8.6e^{0.8\pi i}$	$7.8e^{1\frac{7}{9}\pi i}$
D	E	F
$7.1e^{1.8\pi i}$	$5.8e^{1.2\pi i}$	$6.4e^{1.8\pi i}$

4 Find the exponential form in radians of this complex number

$-6 - 6i$

A	B	C
$8.9e^{1.4\pi i}$	$8.1e^{1.5\pi i}$	$7.2e^{1.3\pi i}$
D	E	F
$8.5e^{1.3\pi i}$	$9.1e^{1.5\pi i}$	$8.5e^{1\frac{7}{18}\pi i}$

5 Find the exponential form in radians of this complex number

$5 - 3i$

A	B	C
$4.5e^{1.9\pi i}$	$7.8e^{1\frac{13}{18}\pi i}$	$5.8e^{1.8\pi i}$
D	E	F
$6.4e^{1.7\pi i}$	$8.5e^{0.3\pi i}$	$5e^{1.7\pi i}$

6 Find the exponential form in radians of this complex number

$-5 - 6i$

A	B	C
$4.2e^{1.8\pi i}$	$6.7e^{1.6\pi i}$	$7.1e^{1.8\pi i}$
D	E	F
$5.1e^{1.6\pi i}$	$7.8e^{1\frac{5}{18}\pi i}$	$5.4e^{0.4\pi i}$

7 Find the exponential form in radians of this complex number

$-3 - 3i$

A	B	C
$4.2e^{0.8\pi i}$	$3.6e^{1.2\pi i}$	$4e^{2\pi i}$
D	E	F
$3.2e^{0.9\pi i}$	$2.2e^{1.1\pi i}$	$4.2e^{1.3\pi i}$

8 Find the exponential form in radians of this complex number

$-6 + 3i$

A	B	C
$4.1e^{1.1\pi i}$	$3.6e^{1.2\pi i}$	$5e^{0.7\pi i}$
D	E	F
$7.6e^{0.1\pi i}$	$6.7e^{0.9\pi i}$	$5.8e^{1.2\pi i}$