Name:			



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

Learn online: app.mobius.academy/math/units/complex numbers/

Find the exponential form in radians of this complex number	$oldsymbol{a}$ $9.5e^{1.4\pi i}$	$oldsymbol{b}$ 8.5 $e^{1rac{7}{18}\pi i}$	$oldsymbol{c}$ 7.2 $e^{1.3\pi i}$
4 + 5i	d $7.6e^{0.4\pi i}$	e $6.7e^{1.4\pi i}$	\mathbf{f} $6.4e^{0.3\pi i}$

2 Find the exponential form in radians of this complex number	a $6.4e^{1.7\pi i}$	b $5.1e^{1.6\pi i}$	7.6 $e^{0.4\pi i}$
2-6i	d $6e^{1rac{1}{2}\pi i}$	e $7.3e^{1.6\pi i}$	\mathbf{f} $6.3e^{1.6\pi i}$

Find the exponential form in radians of this complex number	7.2 $e^{1.2\pi i}$	$oldsymbol{b}$ 9.8 $e^{1.1\pi i}$	$oldsymbol{c}$ 7.6 $e^{1.1\pi i}$
-4 + 3i	d $4.2e^{1.3\pi i}$	8.5 $e^{1\frac{1}{9}\pi i}$	\mathbf{f} $5e^{0.8\pi i}$

4 Find the exponential form in radians of this complex number	$oldsymbol{a}$ 5.7 $e^{0.8\pi i}$	b $8.2e^{1.4\pi i}$	4.5 $e^{1.4\pi i}$
-4 + 4i		e $5.4e^{0.9\pi i}$	$oldsymbol{f}$ 4.2 $e^{0.8\pi i}$

Find the exponential form in radians of this complex number	а	b	С
Hamber	7.3 $e^{1.6\pi i}$	$2.2e^{0.9\pi i}$	$7.2e^{1.7\pi i}$
4 6.	_		
- 0 i	a	е	T
	$4.5e^{0.6\pi i}$	$3.2e^{0.9\pi i}$	$8.2e^{0.6\pi i}$

Find the exponential form in radians of this complex number	$5e^{1.8\pi i}$	b $6.4e^{1.8\pi i}$	c $5.7e^{0.8\pi i}$
3-5i	d $3.6e^{1.8\pi i}$	e $5.4e^{1.9\pi i}$	\mathbf{f} $5.8e^{1.7\pi i}$

7 Find the exponential form in radians of this complex number	$oldsymbol{5.1} e^{0.9\pi i}$	7.1 $e^{0.8\pi i}$	c $4.1e^{0.1\pi i}$
-5 + 5i	$5e^{2\pi i}$	e $5.7e^{0.8\pi i}$	\mathbf{f} 3.6 $e^{0.8\pi i}$