



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

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

$$1.8.5(\cos(1.3\pi \text{ rad}) + i \cdot \sin(1.3\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$-4 + 11i$	$-6 - 8i$	$-6 + 11i$	$-6 + 10i$	$-6 - 10i$	$-6 - 6i$

$$2.7.1(\cos(0.3\pi \text{ rad}) + i \cdot \sin(0.3\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$5 + 5i$	$-6 + 4i$	$-5 + 3i$	$5 + 4i$	$-6 + 3i$	$5 + 3i$

$$3.5(\cos(1.3\pi \text{ rad}) + i \cdot \sin(1.3\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$-1 - 6i$	$-3 - 6i$	$-3 - 8i$	$-1 - 5i$	$-1 - 8i$	$-3 - 4i$

$$4.5.4(\cos(1.6\pi \text{ rad}) + i \cdot \sin(1.6\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$2 - 5i$	$-2 - 8i$	$-2 - 10i$	$2 - 7i$	$-2 - 9i$	$-2 - 7i$

$$5.3.6(\cos(0.8\pi \text{ rad}) + i \cdot \sin(0.8\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$-4 + 3i$	$-2 + 5i$	$-4 + 2i$	$-2 + 4i$	$-3 + 2i$	$-4 + 5i$

$$6.4.2(\cos(0.8\pi \text{ rad}) + i \cdot \sin(0.8\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$1 + 4i$	$-1 + 3i$	$-3 + 3i$	$-2 + 3i$	$-1 + 4i$	$1 + 5i$

$$7.6.4(\cos(0.3\pi \text{ rad}) + i \cdot \sin(0.3\pi \text{ rad}))$$

Find the rectangular form of this polar form complex number

a	b	c	d	e	f
$4 + 5i$	$-1 + 5i$	$1 + 5i$	$-1 - 5i$	$-2 + 5i$	$3 + 5i$