

TUTORS: THIS IS A TAKE HOME QUIZ

Find all third roots of

[a] $-8i$

[b] $27i$

TUTORS: THIS IS A TAKE HOME QUIZ

Find two additional polar representations of the point with the following polar coordinates. One of your answers must have a positive value of r , and one must have a negative value of r .

[a] $\left(5, \frac{2\pi}{3}\right)$

[b] $\left(2, \frac{3\pi}{4}\right)$

TUTORS: THIS IS A TAKE HOME QUIZ

Convert the following rectangular equation to polar form. Simplify your answers.

[a] $x^2 + y^2 - 4x = 0$

[b] $xy = 16$

TUTORS: THIS IS A TAKE HOME QUIZ

Convert the following polar equations to rectangular form. Simplify your answers.

[a] $r = 6 \sin \theta$

[b] $r = \frac{6}{3 + 2 \cos \theta}$

TUTORS: THIS IS A TAKE HOME QUIZ