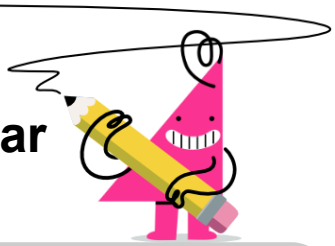
Name

Complex Numbers - Exponential to Polar Form (Radians)



1 Find the polar form in radians of this complex number that is in exponential form

$3.6e^{1.7\pi i}$

A. $3.6(cos(1.7\pi\ rad) + i \cdot sin(1.7\pi\ rad))$
B. $2.7(cos(1.7\pi\ rad) + i \cdot sin(1.7\pi\ rad))$
C. $2.8(cos(1.9\pi\ rad) + i \cdot sin(1.9\pi\ rad))$
D. $0.9(cos(2\pi\ rad) + i \cdot sin(2\pi\ rad))$
E. $1.9(cos(2\pi\ rad) + i \cdot sin(2\pi\ rad))$
F. $1.8(cos(1.8\pi\ rad) + i \cdot sin(1.8\pi\ rad))$

2 Find the polar form in radians of this complex number that is in exponential form

$4.2e^{1.8\pi i}$

A. $7.4(cos(1.9\pi\ rad) + i \cdot sin(1.9\pi\ rad))$
B. $5(cos(1.8\pi\ rad) + i \cdot sin(1.8\pi\ rad))$
C. $4.2(cos(1.8\pi\ rad) + i \cdot sin(1.8\pi\ rad))$
D. $5.7(cos(1.8\pi\ rad) + i \cdot sin(1.8\pi\ rad))$
E. $7.3(cos(1.8\pi\ rad) + i \cdot sin(1.8\pi\ rad))$
F. $7.8(cos(1.8\pi\ rad) + i \cdot sin(1.8\pi\ rad))$

3 Find the polar form in radians of this complex number that is in exponential form

$5e^{0.2\pi i}$

A. $5.1(cos(0.4\pi\ rad) + i \cdot sin(0.4\pi\ rad))$
B. $5(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$
C. $5(cos(0.3\pi\ rad) + i \cdot sin(0.3\pi\ rad))$
D. $6.3(cos(0.3\pi\ rad) + i \cdot sin(0.3\pi\ rad))$
E. $4.2(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
F. $5.4(cos(0.4\pi\ rad) + i \cdot sin(0.4\pi\ rad))$

4 Find the polar form in radians of this complex number that is in exponential form

$5.7e^{1.3\pi i}$

A. $5.7(cos(1.3\pi\ rad) + i \cdot sin(1.3\pi\ rad))$
B. $8.7(cos(\frac{1}{9}\pi\ rad) + i \cdot sin(\frac{1}{9}\pi\ rad))$
C. $10.5(cos(0.3\pi\ rad) + i \cdot sin(0.3\pi\ rad))$
D. $9.7(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
E. $8.8(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$
F. $7.2(cos(1.6\pi\ rad) + i \cdot sin(1.6\pi\ rad))$

5 Find the polar form in radians of this complex number that is in exponential form

$5e^{1.2\pi i}$

A. $5(cos(1.2\pi\ rad) + i \cdot sin(1.2\pi\ rad))$
B. $5.6(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
C. $4.6(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
D. $4.9(cos(1.9\pi\ rad) + i \cdot sin(1.9\pi\ rad))$
E. $4(cos(1\frac{5}{6}\pi\ rad) + i \cdot sin(1\frac{5}{6}\pi\ rad))$
F. $5.7(cos(1.7\pi\ rad) + i \cdot sin(1.7\pi\ rad))$

6 Find the polar form in radians of this complex number that is in exponential form

$4.2e^{0.8\pi i}$

A. $9.9(cos(2\pi\ rad) + i \cdot sin(2\pi\ rad))$
B. $10.1(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
C. $9.2(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$
D. $5(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
E. $4.2(cos(0.8\pi\ rad) + i \cdot sin(0.8\pi\ rad))$
F. $8(cos(0\pi\ rad) + i \cdot sin(0\pi\ rad))$

7 Find the polar form in radians of this complex number that is in exponential form

$5.7e^{0.3\pi i}$

A. $7.2(cos(0.3\pi\ rad) + i \cdot sin(0.3\pi\ rad))$
B. $8.6(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$
C. $11(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$
D. $5.7(cos(0.3\pi\ rad) + i \cdot sin(0.3\pi\ rad))$
E. $10.3(cos(0.1\pi\ rad) + i \cdot sin(0.1\pi\ rad))$
F. $6.4(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$

8 Find the polar form in radians of this complex number that is in exponential form

$6.4e^{0.2\pi i}$

A. $6.8(cos(0.3\pi\ rad) + i \cdot sin(0.3\pi\ rad))$
B. $6.2(cos(\frac{2}{9}\pi\ rad) + i \cdot sin(\frac{2}{9}\pi\ rad))$
C. $5.4(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$
D. $6.8(cos(1.7\pi\ rad) + i \cdot sin(1.7\pi\ rad))$
E. $4.1(cos(0.4\pi\ rad) + i \cdot sin(0.4\pi\ rad))$
F. $6.4(cos(0.2\pi\ rad) + i \cdot sin(0.2\pi\ rad))$