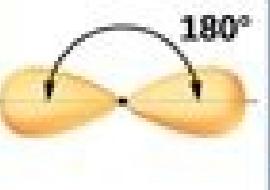
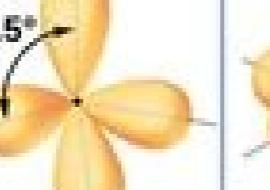
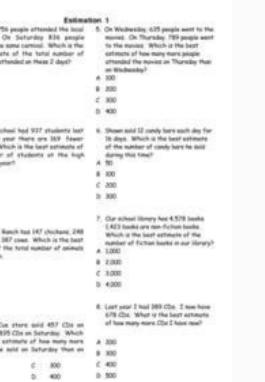


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Next

# Complex numbers and polar form worksheet answers

Number of regions	Two regions of high electron density (bonds and/or unshared pairs)	Three regions of high electron density (bonds and/or unshared pairs)	Four regions of high electron density (bonds and/or unshared pairs)	Five regions of high electron density (bonds and/or unshared pairs)	Six regions of high electron density (bonds and/or unshared pairs)
Spatial arrangement					
Line-dash-wedge notation	H—Be—H				
Electron pair geometry	Linear; 180° angle	Trigonal planar; all angles 120°	Tetrahedral; all angles 109.5°	Trigonal bipyramidal; angles of 90° or 120° An attached atom may be equatorial (in the plane of the triangle) or axial (above or below the plane of the triangle).	Octahedral; all angles 90° or 180°



### Complex Fractions.

The quotient of two mixed numbers in arithmetic, such as  $2\frac{1}{2} \div 3\frac{1}{4}$ , can be written as a fraction.

$$2\frac{1}{2} \div 3\frac{1}{4} = \frac{2\frac{1}{2}}{3\frac{1}{4}} = \frac{2 + \frac{1}{2}}{3 + \frac{1}{4}}$$

In algebra, some rational expressions also have fractions in the numerator, or denominator, or both.

#### Complex Fraction

A quotient with one or more fractions in the numerator, or denominator, or both is called a **complex fraction**.

The parts of a complex fraction are named as follows.

$2 + \frac{1}{2}$	← Numerator of complex fraction
$\frac{2}{3} + \frac{1}{4}$	← Main fraction bar
$3 + \frac{1}{4}$	← Denominator of complex fraction

Slide 6.5-3

Kuta Software - Infinite Algebra 1

Name: \_\_\_\_\_

Simplifying Radical Expressions

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Similarity Task Expression:

$$\frac{\sqrt{2x^2}}{\sqrt{8x^2}}$$

$$\frac{\sqrt{3x^2}}{\sqrt{12x^2}}$$

$$\frac{\sqrt{12x^2}}{\sqrt{3x^2}}$$

$$\frac{\sqrt{12x^2}}{\sqrt{3x^2}}$$

$$\frac{\sqrt{2x^2}}{\sqrt{8x^2}}$$

$$\frac{\sqrt{2x^2}}{\sqrt{8x^2}}$$

$$\frac{\sqrt{3x^2}}{\sqrt{12x^2}}$$

$$\frac{\sqrt{3x^2}}{\sqrt{12x^2}}$$

$$\frac{\sqrt{2x^2}}{\sqrt{8x^2}}$$

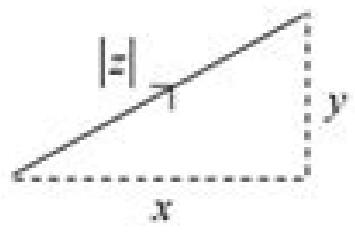
$$\frac{\sqrt{2x^2}}{\sqrt{8x^2}}$$

$$\frac{\sqrt{3x^2}}{\sqrt{12x^2}}$$

$$\frac{\sqrt{3x^2}}{\sqrt{12x^2}}$$

### Modulus

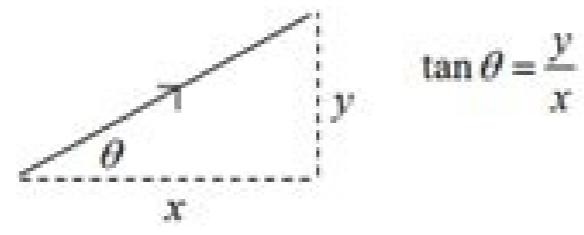
### From Pythagoras:



$$r = |z| = \sqrt{x^2 + y^2}$$

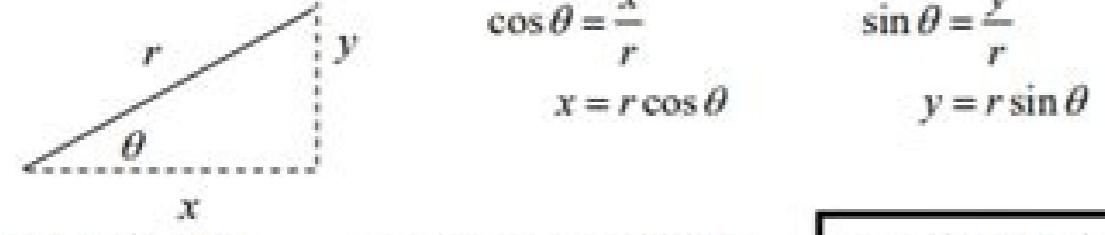
### **Argument**

## From Trigonometry:



$$Arg|z| \Rightarrow -\pi < \theta \leq \pi$$

The polar form, mentioned before, is then created as follows



thus  $z = x + iy$ ;

$$z = r \cos \theta + ir \sin \theta , \text{ i.e.}$$

$$z = r(\cos \theta +$$

$$y = r \sin \theta$$

[View Details](#)

$$z = r(\cos \theta +$$

## POLAR FORM

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