

ALGEBRA I END-OF-COURSE EXAM

Study Guide

RATIONAL VS. IRRATIONAL

6	-37	0.875	$\pi = 3.14159265...$
0.5	$\frac{1}{2}$	$-9\frac{3}{5}$	$\sqrt{2} = 1.41421356237...$

Domain
(x)

Range
(y)

PROPERTIES

Commutative Property

$$a + b = b + a$$

$$ab = ba$$

Associative Property

$$(a + b) + c = a + (b + c)$$

$$(ab)c = a(bc)$$

Distributive Property

$$a(b + c) = ab + ac$$

$$a(b - c) = ab - ac$$

Identity Property

$$a + 0 = a$$

$$a \cdot 1 = a$$

Addition Property of Equality

Subtraction Property of Equality

Multiplication Property of Equality

Division Property of Equality

If you add (subtract, multiply or divide) the same thing to both sides of the equation, the equation is still balanced.

$$\sqrt{16} = 4 \text{ because } 4 \cdot 4 = 16$$

$$\sqrt{125} = 5 \text{ because } 5 \cdot 5 \cdot 5 = 125$$

PROPERTIES OF EXPONENTS

Integer Exponents

$$a^m \cdot a^n = a^m$$

$$(a^m)^n = a^{m \cdot n}$$

$$(ab)^n = a^n b^n$$

$$a^{-n} = \frac{1}{a^n}$$

$$a^0 = 1$$

$$a^0 = 1$$

$$\frac{a^m}{a^n} = a^m$$

$$\frac{a^m}{a^n} = \frac{1}{a^n}$$

Rational Exponents

$$b^{\frac{1}{2}} = \sqrt{b}$$

$$9^{\frac{3}{2}} = (\sqrt{9})^3 = 27$$

FUNCTIONS

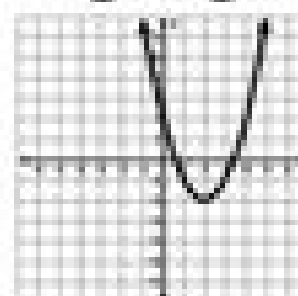
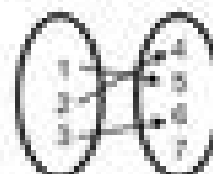
*Each x can only be paired with one y.

*Must pass the Vertical Line Test

Example:

(1,5), (2,8), (3,7), (4,14)

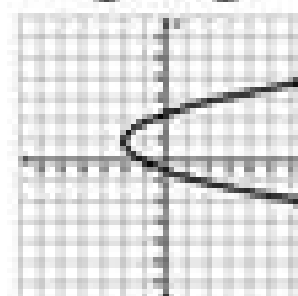
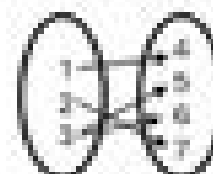
x	5	6	8	9	13
y	-2	7	8	1	7



Non-example:

(1,5), (1,8), (3,7), (4,14)

x	2	5	6	8	9
y	-5	3	1	5	7



SEQUENCES

Arithmetic Sequence

5, 10, 15, 20, 25, ...

$$a_n = a_1 + (n - 1)d$$

First term

Common Difference

*n = term you are trying to find (ex. 100th term)

Geometric Sequence

3, 6, 12, 24, 48, ...

$$a_n = a_1 \cdot r^{(n - 1)}$$

First term

Common ratio

Algebra 1 Study Guide

Miriam A. Leiva



Algebra 1 Study Guide:

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jul 24 2023 the feed network of the antenna is composed of an air filled rectangular waveguide rwg to substrate integrated waveguide siw transition and a power division feed network finally the array element and the feed network are combined to form an 8 times 16 slot array the overall simulation design is carried out in hfss

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