

Line CD passes through (0, 1) and is parallel to $x + y = 3$. Write the standard form of the equation of line CD. $x + y = 1$ $x - y = 1$ $x + 1 = y$ $x + y = 11$

ANSWER

$$x+y=1$$

EXPLANATION

We want to find the equation of line CD which passes through (0, 1) and is parallel to $x + y = 3$.

In slope intercept form, the given line is

$$y=-x+3$$

The slope of this line is $m=-1$

Line CD also has the same slope

The equation is given by:

$$y=mx+b$$

The given point (0,1) means the y-intercept; is $b=1$

Hence the equation is

$$y = -x + 1$$

In standard form the equation is:

$$x + y = 1$$

Answer:

The answer is $x + y = 1$

Step-by-step explanation:

Given: Line CD passes through (0, 1) and is parallel to $x + y = 3$.

We know that if two lines are parallel then they have equal slopes.

Thus, the slope of line = slope of line $x + y = 3$

$x + y = 3$ when we compare this to the standard linear equation

$$= 3 - x$$

$y = m x + c$.we get $m = -1$.

The slope of CD (m) = -1

Now, the equation of line CD passing through (0,1) is given by :-

$$(y - 1) = m (x - 0)$$

$$? (y - 1) = (-1) x$$

$$x + y = 1$$

The equation of line CD = $x + y = 1$

Sylvanite is a mineral that contains 28.0% gold by mass. How much sylvanite would you need to dig up to obtain 34.0g of gold?

Identify the independent and dependent variables

Why is haiku unlike other forms of poetry?

How can we have the best thing

Which is heaviest

a bicycle

a pencil

a dog

an elephant

How many micro-nutrients and macro-nutrients are there? what the difference!?

Which sentence avoids a parallelism? problem? A.The Declaration of Independence was? bold, outrageous, and provocative.

B.The Declaration of Independence was? bold, it outraged the? king, and provocative.

C.The Declaration of Independence was? bold, outrageous, and it provoked the anger of the king.

D.The Declaration of Independence was? bold, outrageous in? attitude, and it provoked the anger of the king.

Why is the dark cycle called a cycle?

Jayce sold 218 cups of lemonade at his lemonade stand.what is 218 rounded to the nearest ten?

Which of the following retirement plans is guaranteed to a certain extent by the U.S. government? A.) IRAs and 401(k) plans

B.) social security and pension plans

C.) social security and 401(k) plans

D.) social security, IRAs, and pension plans

HELP!!!!

In a 10 m² ecosystem, there are 60 raccoons. What is the population density of raccoons?

When is it easiest to find the percent of a number using a decimal ? (10 points)

If $m\angle A=65^\circ$, $m\angle B=15^\circ$, $m\angle C=100^\circ$, which lists the sides of the triangle in order from shortest to longest?

What does it mean when we say the dna replication is semiconservative

Is 0.08 the same as 0.80 or is it the same as .8?

Lauren bought 20 ounces of sliced ham. She used $\frac{3}{4}$ of the ham to make sandwiches for her friends and $\frac{1}{5}$ of the ham in an omelet. How many ounces of ham were left?

Which of the following is not one of the five security levels that classify prisons? A.minimum

B.more

C.low

D.high

List all factors of 36

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