# Cheatography

# Math M03 quiz 1 Cheat Sheet by Berger42 via cheatography.com/77212/cs/18948/

## **Function Notation**

Treat f(x)=y aka solve for x disregard f(x) then plug into y (3.3)

Slope intercept form etc also applies tooo

#### f(x)=-2x

f(x) = -2(0) 'plug in a rando #' you plugged in 0 for x so x=0, the answer you got was 0 so y=0

# Solutions

No solution: answer is different numbers or letters

Infinitely Many solutions: Both sides of equation are identical

#### Linear inequalities

Infinity always has parenthesis

brackets apply to the greater/less than or equal to sign and

when you divide a negative inequality term, you swap the >,< etc.



#### By Berger42

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**Consecutive Integers** 

#### **Consecutive Integers**

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There are only two formulas to remember to solve these problems
The first one is consecutive integers.
What are consecutive integers?
       1 2
0
                                 3
                                               4
                                                         5
                                                                    6
                                               x+4
      x+1
                x+2 x+3
                                                         x+5
                                                                   x+6
 so the formula for consecutive integers is
x + (x+1) + (x + 2)..... And so on. The number of terms we have depends on the number the problem asks us to find
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#### Substitution Method

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EXAMPLE 5 Use the initialization method to solve the system.

\begin{cases}
2x + 4y = -6 & First equation \\
2x - 2y = -5 & Scende equation \\
5 shutian In the second equation, we are told that x is equal to <math>2y - 5. Since they are equation in one variable, which we can be for y.

\begin{aligned}
&\sum_{i=1}^{2} x + 4y = -6 & First equation \\
&2(\frac{2}{2y} - 3) + 4y = -6 & Substitute 2y - 5 \text{ for } x. \\
&4y - 10 + 4y = -6 \\
&8y = 4 \\
&y = \frac{4}{8} = \frac{1}{2} & Solve for y.
\end{aligned}
```

Elimination method

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EXAMPLE 7 We be similar method to solve the system:

\begin{cases} x - 5y = -12 \\ -x + y = -12 \end{cases}
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## Graphing formulas

Point Slope	y-y1=m(x-x(1))
Slope intercept	y=mx+b
Standard	Ax+By=C
Slope Formula	y-y(1) over x-x(1)

when in doubt make a table

#### Function

For each x there is exactly one y in the range

Lines	
Parallel	Same slope
Perpendic	Slope is a negative reciprocal of
ular	the other line

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Published 24th February, 2019. Last updated 24th February, 2019. Page 1 of 1.