

## Sec. 4.4 - Rearranging Equations

Remember, "solving" for a given unknown means we are going to satisfy the following:

- all of the DESIRED unknowns (n,x,a, etc.) are all gathered on one side, in the TOP (numerator) position
- whole numbers are on the other side
- the coefficient (number) in front of the DESIRED variable is a "1"
- This process is called ISOLATING the variable

Basically, is the desired unknown all by itself?

Warm Up

Solve for the given unknown (x or a):

$$3x + 8 = -16$$

$$-3(2a - 5) = -21$$

Solve for n

$$\frac{(n + 7)}{3} = 12$$

Solve for "a"

$$a + 8 = b$$

Solve for "a"

$$2a - 5 = z$$

Solve for "a"

$$ab - r = 3p$$

Solve for "d"

$$vt = d$$

Solve for "y"

$$2x + y = 9$$

Does the final result look familiar?

State the slope and y intercept for this relation.



Solve for "y"

$$4x + 6y - 24 = 0$$

Does the final result look familiar?

State the slope and y intercept for this relation.

Grade 9 Academic

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Remember, "solving" does not always mean get a number answer. - BIG IDEA