Ready, Set, Go!

Ready

Topic: Inequalities



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1.	Use the inequal	itv 4 < 6 to	complete ea	ach row in	the table.
	obe the mequal	,	compice ce	4011 1 0 11 111	tile table.

Apply each operation to the original inequality 4 < 6	Result	Is the inequality still true?
Add 4 to both sides		
Add -4 to both sides		
Subtract 10 from both sides		
Multiply both sides by 4		
Divide both sides by 2		
Multiply both sides by -3		
Divide both sides by -2		

In general, what operations, when performed on an inequality, reverse the inequality?

Set

Topic: Solve literal equations

Solve for the indicated variable.

- 2. Solve the following equation to isolate *F*: $C = \frac{5}{9}(F 32)$
- 3. For $V = \frac{1}{3}\pi r^2 h$, rewrite the formula to isolate the variable h.
- 4. The area formula of a regular polygon is $A = \frac{1}{2}Pa$. The variable *a* represents the apothem and *P* represents the perimeter of the polygon. Rewrite the equation to highlight the value of the perimeter, P.
- 5. The equation y = mx + b is the equation of a line. Isolate the variables m.
- 6. The equation y = mx + b is the equation of a line. Isolate the variable x.
- 7. Ax + By = C is the standard form for a line. Isolate the equation for x.

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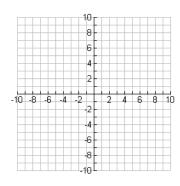
8. Ax + By = C is the standard form for a line. Isolate the equation for y.

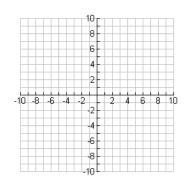
Go

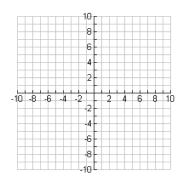
Topic: Solve systems of linear equations

Solve linear equations and pairs of simultaneous linear equations (simple, with a graph only). Justify the solution numerically.

- 9. y = x + 3 and y = -x + 3
- 10. y = 3x 6 and y = -x + 6
- 11. 2x = 4 and y = -3







Need Help? Possible helpful reasources:

 $\frac{http://www.khanacademy.org/math/algebra/solving-linear-inequalities/v/equations-and-inequalities}{}$

http://www.khanacademy.org/math/algebra/solving-linear-equations/v/solving-for-a-variable

http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/v/solving-linear-systems-by-graphing