Review of discriminant

 $b^2 - 4ac$

- > 0, two solutions
- = 0, 1 solution
- < 0, 0 solutions

Use TI-NSpire to play around with this.

Different tables make up quadratics as assigned.

DO NOW

When is a fraction undefined?

So, if $y = \frac{2}{x}$, what number can't x be equal to? _____. We call this a <u>restriction</u>.

- If $=\frac{3x-1}{7x}$, state the restriction?
- If $b = \frac{7n}{n-1}$, state the restriction?
- If $m = \frac{y-1}{y+3}$, state the restriction?

Solving Literal Equations:

To solve a literal equation, we are solving for one variable in terms of another.

This is useful when doing conversions using various formulas.

1) Solve for x:
$$ax + b = c$$

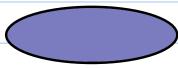
Are there any restrictions?

2) Solve for F: S = 3F + 24

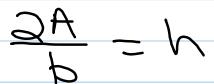
Are there any restrictions?

No restrictions

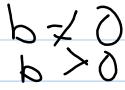


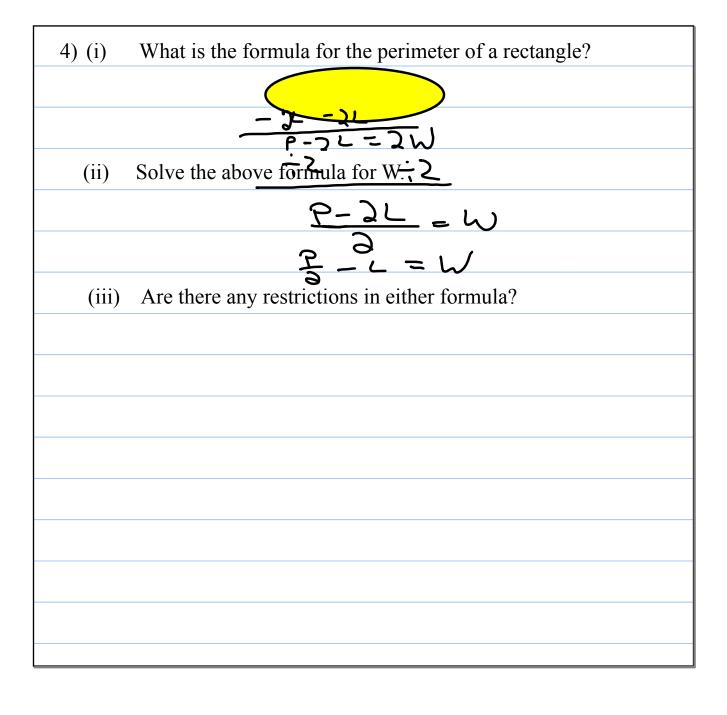


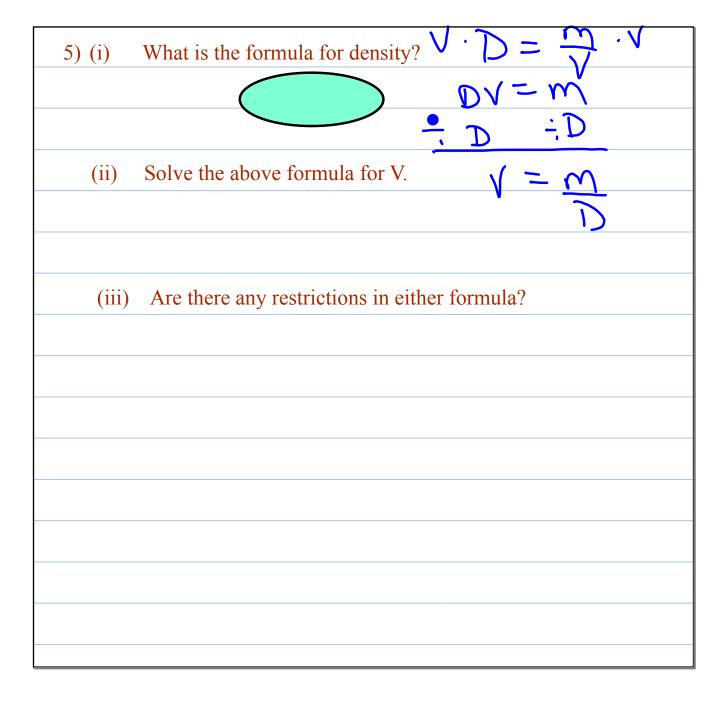
(ii) Solve the above formula for h.



(iii) Are there any restrictions in either formula?







6) (i)	What is the formula for the area of a trapezoid?
(ii)	Solve the formula above for b_1
(iii)	Are there any restrictions in either formula?

Homework:

- Worksheet
- Quiz on Discriminant Wednesday
- Test on discriminant, rational expressions that can be factored and graphing quadratics April 19 (no old material).