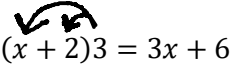
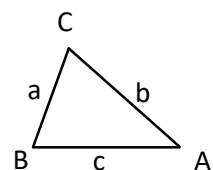
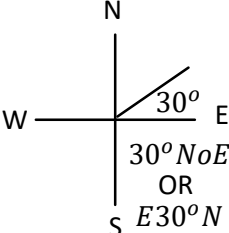


C11 - 1.0 - Remember

<p>Radicals: Laws Exact Value (Algebra) OR Decimal (Calculator)</p> <p>Add/Subtract: Must have Same Index & Radicand! Multiply/Divide: Must have Same Index*</p> $\sqrt{x+4} \neq \sqrt{x} + \sqrt{4} \quad \sqrt{3^2+4^2} \neq 3+4=7$ $\sqrt{a^2+b^2} \neq a+b \quad \sqrt{3^2+4^2} = \sqrt{25} = 5$ <p>FOIL a conjugate F & L (because O & I cancel)</p>	<p>Inequalities: Laws $\sqrt{x^2} = x = \pm x$</p> $x^2 \geq 9 \quad x^2 \leq 9$ $\sqrt{x^2} \geq \pm\sqrt{9} \quad \sqrt{x^2} \leq \pm\sqrt{9}$ $x \geq +3 \quad x \leq -3 \quad x \leq +3 \quad x \geq -3$ $x \geq +3 \quad x \leq -3 \quad -3 \leq x \leq 3$
<p>Quadratics $y = f(x)$</p> $x^2 = 9 \quad x^2 = 9$ $x^2 - 9 = 0 \quad \sqrt{x^2} = \pm\sqrt{9}$ $(x-3)(x+3) = 0$ $x = 3 \quad x = -3 \quad x = \pm 3$ <div style="border: 1px solid black; padding: 2px; display: inline-block;">\pm; Plus/Minus</div> <p>Solving</p> $-a - b = -(a + b) \quad GCF = -1$ $-a + b = -(a - b)$ <p> $(x+2)3 = 3x + 6$ Back Distribution</p>	<p>Absolute Values</p> <p>"+" Case "-" Case Piecewise</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 45%;"> <p>Reciprocals $x - \text{int of original}$</p> <p>VAs NPVs Invariant points $(x, \pm 1)$</p> </div> <div style="border: 1px solid black; padding: 2px; width: 45%;"> <p>(Intersection of Original Graph-Line $y = \pm 1$)</p> </div> </div> <p>Trigonometry Degree Mode Radian Mode</p> <p>SOHCAHTOA We only inverse (+lengths) = θ_r θ_r is always positive, between 0° and 90° Substitution $m = 2x$ Calculator Systems $y_1 = y_2$ or $y_1 \pm y_2 = 0$ "c" is the only angle in the cos law/</p>
<p>Rationals Restrictions</p> <p>Common Mistakes Corrections</p> $\frac{4+3}{4} \neq 1+3=4 \quad \frac{4+3}{4} = \frac{4}{4} + \frac{3}{4} = 1.75$ <p>Separate/Add Fractions</p> $\frac{x+a}{x} \neq 1+a \quad \frac{x+a}{x} = \frac{x}{x} + \frac{a}{x} = 1 + \frac{a}{x}$ $\frac{1}{2} + \frac{x}{2} \neq 1+x \quad \frac{1}{2} + \frac{x}{2} = \frac{3}{2} \quad \text{Multiply by LCD}$ $\frac{x+1}{2} = +\frac{-x-1}{2} \quad \frac{a-1}{-1} = -a+1$ <p style="text-align: center;">$GCF = -1$ /Distribution</p>	<div style="display: flex; align-items: center;"> <div style="text-align: center; margin-right: 20px;">  </div> <div> $\text{Area} = \frac{1}{2} ab \sin C$ <p>Angle In-between Sides</p> </div> </div> <div style="text-align: center; margin-top: 20px;">  <p>30° NoE 30° Towards North From East OR E30°N From East 30° Towards North</p> </div> <p>Sequences Series</p> <p>Blanks t_n, n, d, r After!</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $\begin{aligned} \text{even} &= 2n \\ \text{odd} &= 2n \pm 1 \end{aligned}$ </div>