**Algebra 2 – Final Exam Cheat Sheet**

**Quadratic Equation**

$$x= \frac{-b\pm \sqrt{b^{2}-4ac}}{2a}$$

**Logarithms**

b*x* = *a* 🡪 log*b**a* = *x*













loge *x* = ln *x*

**Radical Expressions**



$$x^{-a}=\frac{1}{x^{a}} $$

**Trigonometry**

$$\sin(A=\frac{opp}{hyp})$$

$$\cos(A=\frac{adj}{hyp})$$

$$\tan(A=\frac{opp}{adj})$$

**Rational Functions**



*x*-intercepts: numerator = 0

vertical asymptotes: denominator = 0

horiz. asymptotes: none when degree p > degree q

 y = 0 when degree p < degree q

 when degree p = degree q

holes: what cancels out = 0