# Cheatography

### Math FPT Cheat Sheet by abititchner via cheatography.com/210605/cs/45451/

Quadratic Relations
Laws + Formulas
Standard Form - y=ax2+bx+c Ex.
Vertex Form - y=a(x−h)2 +k Ex.
Factored Form - ax 2 +bx+c=a(x-p)(x-q) Ex.
Axis of Symmetry - x= −b± b2-4ac / 2a Ex.
Axis of Symmetry - x = -b / 2a Ex.
Factoring
Laws + Formulas
Factoring an Expression - ax2+bx+c=(px- +q)(rx+s) Ex.
Difference of Squares - a2- b2= (a-b)(a+b) Ex.
Perfect Squares - a2+2ab+b2=(a+b)2 Ex.

Factor by Grouping - When expression has 4 terms, group into pairs, factor out GCF, then factor out common binomial.

Ex.

#### By abititchner

#### Trigonometry

Not published yet.

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Laws + Formulas
Trig Ratios
Sine (SOH) - sin $\theta$ = opposite / hypotenuse Ex.
Cosine (CAH) - cosθ = adjacent/ hypotenuse Ex.
Tangent (TOA) - sinθ = adjacent/opposite Ex.
Sine Law
Solving for Angle - sin A/a = sin B/b = sin C /c Ex.
Solving for Side - a /sin A = b /sinB= c/sinC Ex.
Cosine Law
Solving for Angle - cosA = b2+c2-a2 / 2bc Ex.
Solving for Side - a2 = b2+c2-2bc cosA Ex.

## Explanation Standard Form : Vertex Form : Factored Form : Axis of Symmetry : Axis of Symmetry:

#### Explanation

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