

## 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

Fx

Factored Form - ax 2 +bx+c=a(x-p)(x-q)

Fx

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)

Fχ

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.

Trigonometry

Laws + Formulas

Trig Ratios

Sine (SOH) -  $\sin\theta$  = opposite / hypotenuse

Fχ

Cosine (CAH) -  $\cos\theta$  = adjacent/

hypotenuse

Ex.

Tangent (TOA) -  $sin\theta$  = 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

C

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