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## Conic Sections Reference Sheet

**conic sections formulas - ttdk** - conic sections formulas parabola vertical axis horizontal axis equation  $(x-h)^2=4p(y-k)$   $(y-k)^2=4p(x-h)$  axis of symmetry  $x=h$   $y=k$  vertex  $(h,k)$   $(h,k)$  focus  $(h,k+p)$   $(h+p,k)$  directrix  $y=k-p$   $x=h-p$  direction of opening  $p>0$  then up;  $p<0$  then down;  $p$