FORMULA SHEET

Distance

$\sqrt{(x\_{2}-x\_{1})^{2}+(y\_{2}-y\_{1})^{2}}$

Slope

m = $\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$ or by counting $\frac{rise}{run}$

Midpoint (x, y) = $(\frac{x\_{1}+x\_{2}}{2}, \frac{y\_{1}+y\_{2}}{2})$

 Point-Slope Form $y-y\_{1}=m(x-x\_{1})$

Slope-Intercept Form $y=mx+b $

Density $= \frac{mass}{volume}$

Area

Rect/square A= lw

Triangle A = ½ bh

Volume

Cone $V= \frac{πr^{2}h}{3}$

Prism$ V=lwh$

Pyramid $V=\frac{lwh}{3}$

 



