**Line integral:**

**P512** Curl and divergence

, where

**P529.** Conservative Vec field:

**P526. If F is a conservative vector field, then we can:**

**P528.**

**P521**

**P544** Polar Coordinates: (Always add )

Move to polar if it is a circle or sphere

**P538** Center of Mass for

**P539** Moment of inertia

**P540** Solid bounded by a plane

**P549** Region with holes

**P553** surface Area:

If it is a sphere move to polar coordinates

**P554** surface Integral:

**P554** Projection of S onto other planes

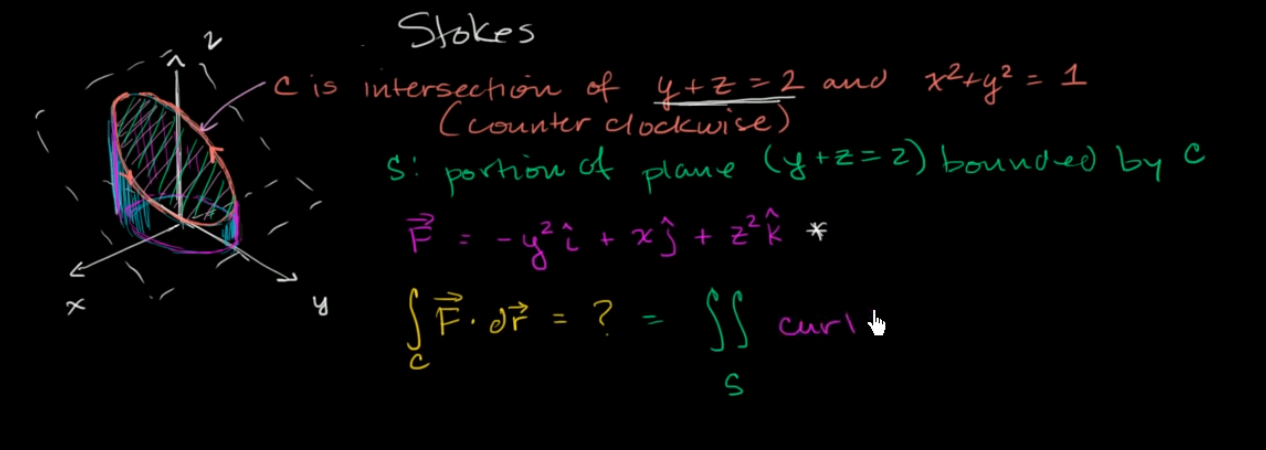
**P554** Mass of a surface

Important: <https://moodle.concordia.ca/moodle/mod/lti/view.php?id=2228205>

**P556** Flux

For the flux: where g is the equation of the plane

**P562** stokes theorem :



https://www.khanacademy.org/math/multivariable-calculus/greens-theorem-and-stokes-theorem/stokes-theorem/v/stokes-example-part-1

**P566** Center of mass for

**P575** Divergence theorem

**P571** Spherical coordinates of triple integrals

**P587** The rate of fluide passing through a Region D in time t

Calculate Flux <https://moodle.concordia.ca/moodle/mod/lti/view.php?id=2228205>

**P579 15)** Mass of fluide per unit time (with the minus?)