

# Topo - GRADIENT (2:39)

<https://www.youtube.com/watch?v=KxeBAxUd4OU&index=33&list=PL37057D7BFD1608CB>

**STEP #1** WRITE THE FORMULA FOR GRADIENT (pg 1 of ESRT)

**STEP #2** - FIND THE ELEVATIONS OF POINTS X AND Y. (endpoints)

Y = \_\_\_\_\_

X = \_\_\_\_\_

**STEP #3** - FIND THE DISTANCE BETWEEN THE POINTS USING THE \_\_\_\_\_

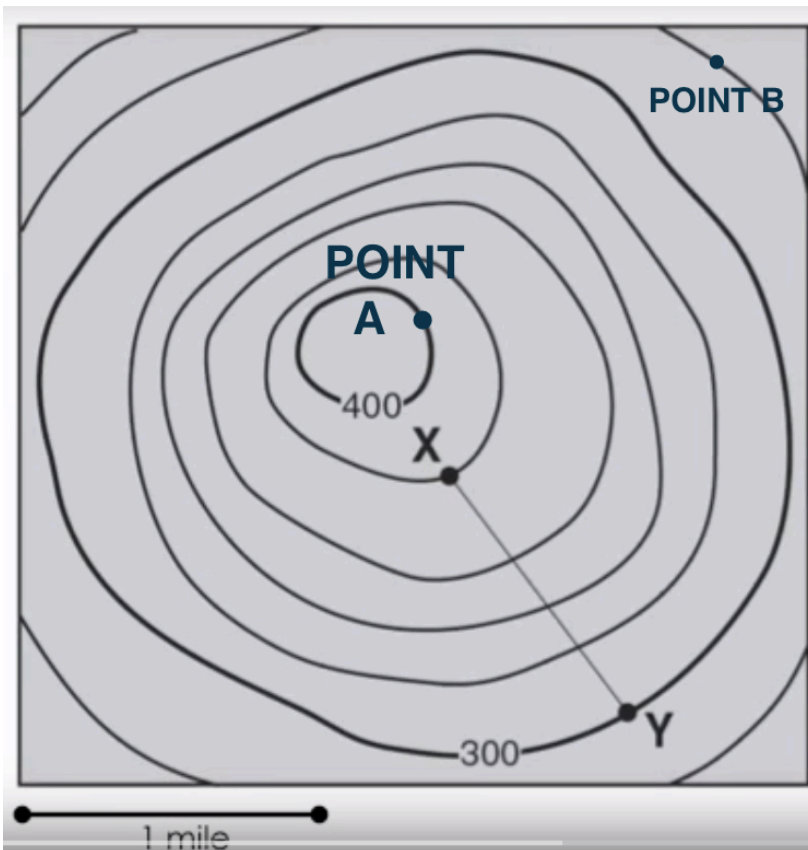
AND SOME \_\_\_\_\_

DISTANCE = \_\_\_\_\_ MILE

SUBSTITUTE VALUES INTO THE FORMULA AND SOLVE

GRADIENT = \_\_\_\_\_ = \_\_\_\_\_

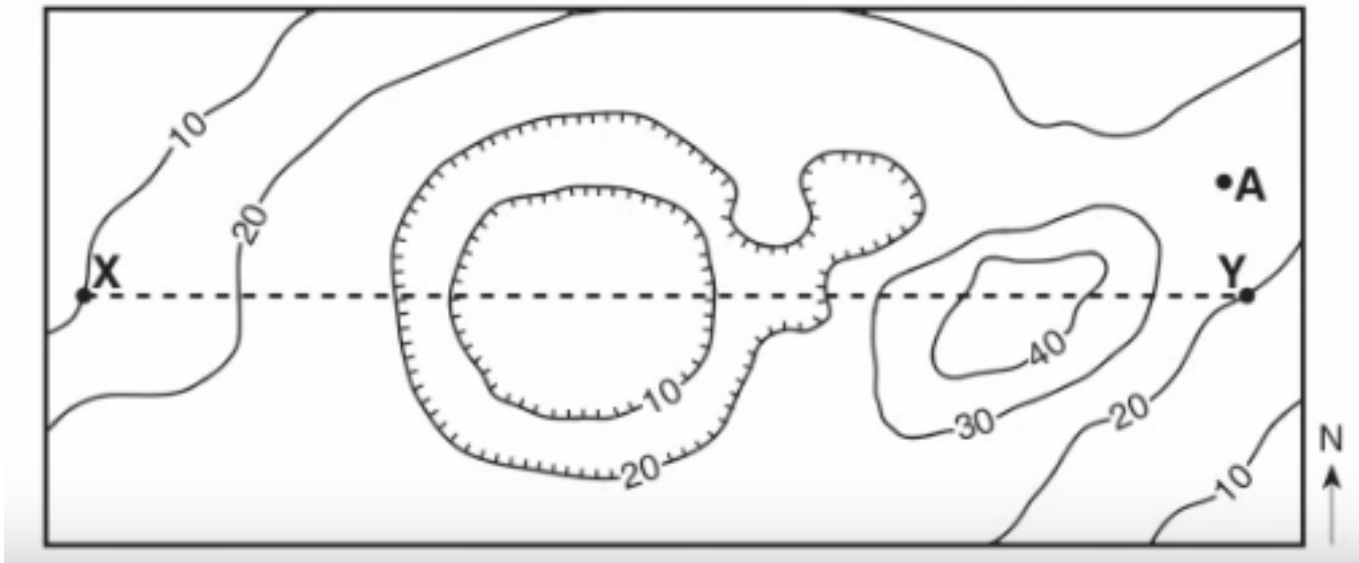
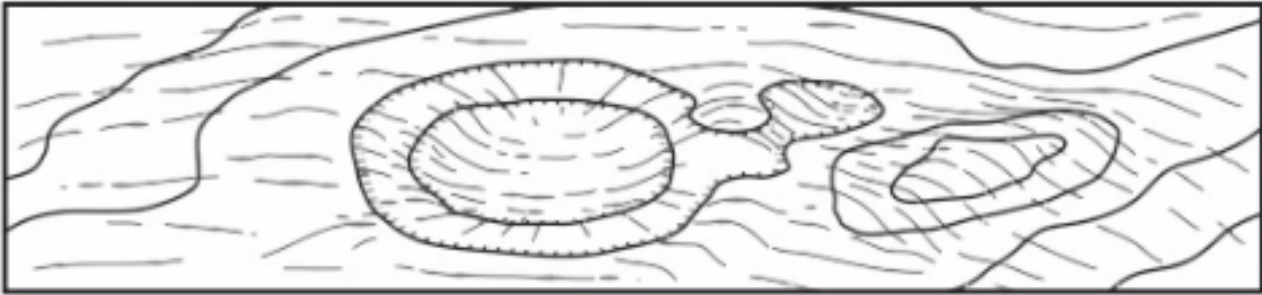
**APPLICATION** - Calculate the Gradient from Point A to Point B



## Topos - Profiles (3:24)

<https://www.youtube.com/watch?v=dA1J9kpi1nM&index=31&list=PL37057D7BFD1608CB>

### How to Draw a Topographic Profile



Use scrap paper and mark off and label every spot where the contour lines hit your scrap paper.



Line your scrap paper along the bottom of the grid.

Slide your scrap paper up the grid to accurately plot the location of each point.

Connect the points with a smooth curve (You can't have a flat topped mountain or flat bottomed valley)

The line must curve up or down between two points that are the same elevation.

Remember that one side of each point must be higher and one side must be lower!