

# Relief and Vertical Interval

Ground Features

Types of Slopes

Sheet 4 Map (Coleraine) Required



# Relief and Vertical Interval

- The Aim of this lesson is to teach you how to understand the shape of the ground in terms of hills and valleys.
- Contours on a map are known as “Relief”



# Contour Lines

- Lines on a map (*usually red/orange*) which join up points of equal height.
- Climb upwards in 10 meters on a 1:50,000 map
- Figures are written against the line to illustrate their height.

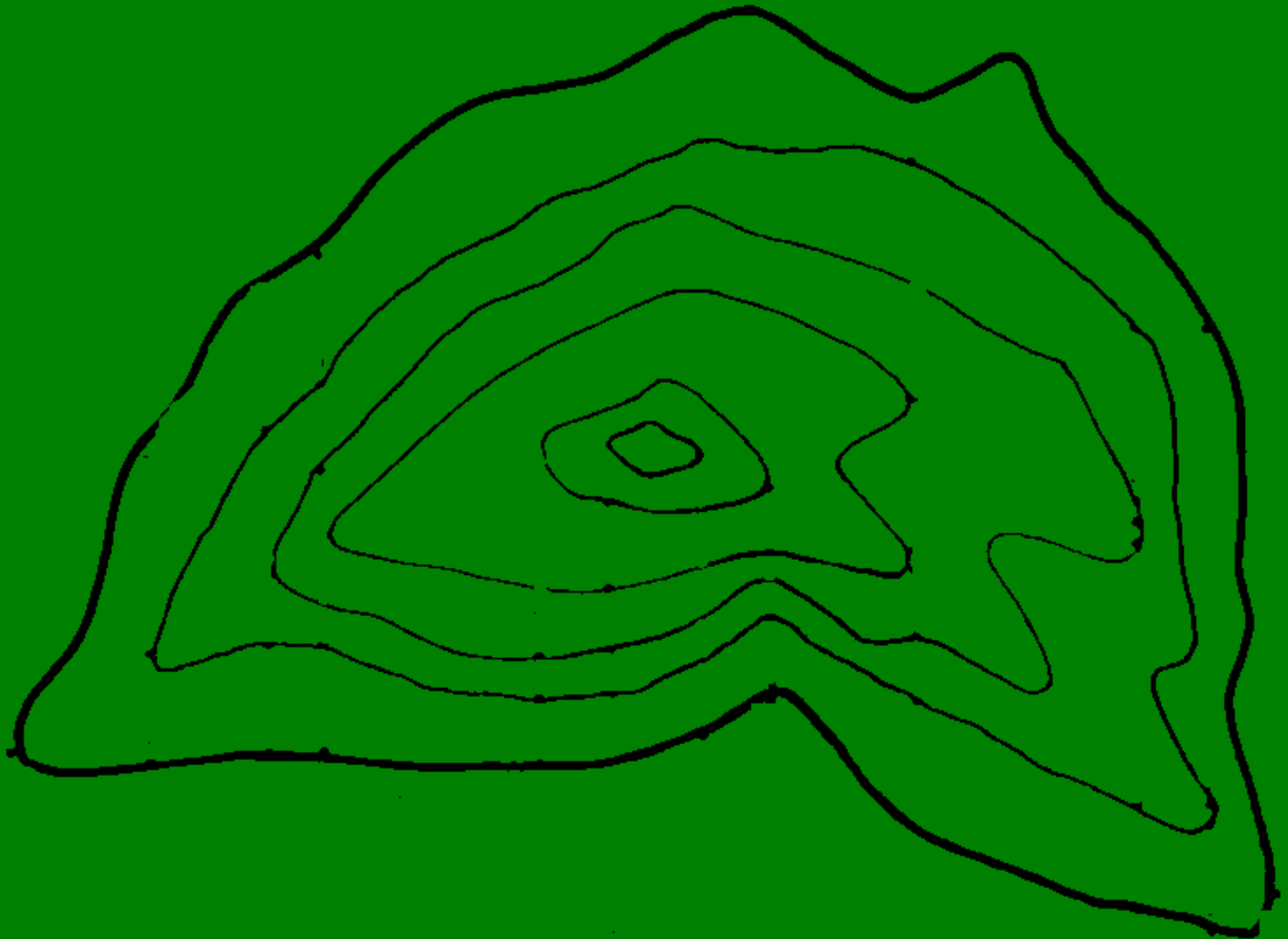


# Contour Lines

- The *further* apart the lines, the *flatter* the ground will be
- The *closer* apart the lines, the *steeper* the ground will be



# Contour Lines

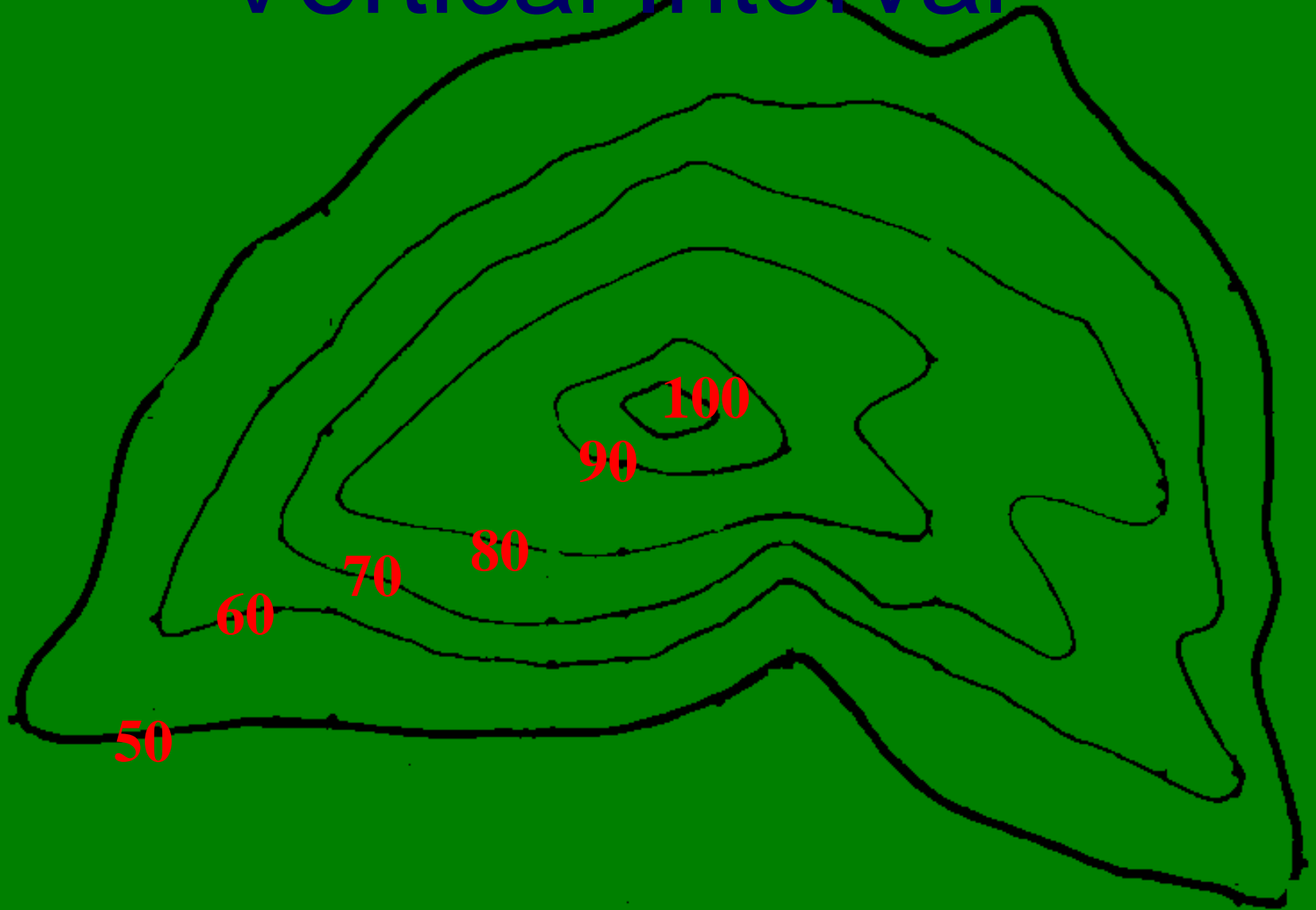


# Contour Lines

- The figures are written so they can be read the correct way up when looking up the slope
- On a 1:50000 scale map the contour lines are to the nearest meter and have a Vertical Interval (VI) of 10 meters.



# Vertical Interval



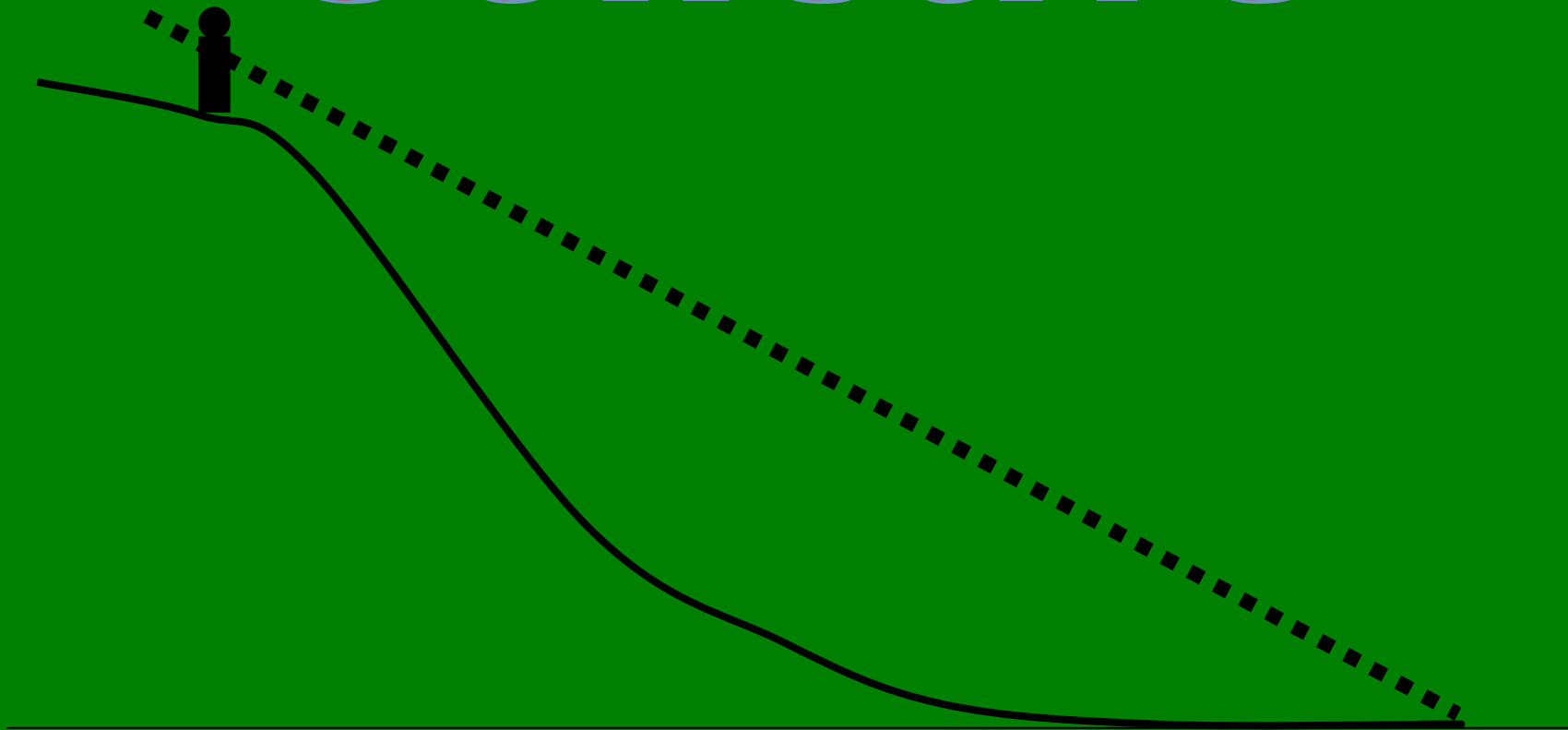
**Types**

**of**

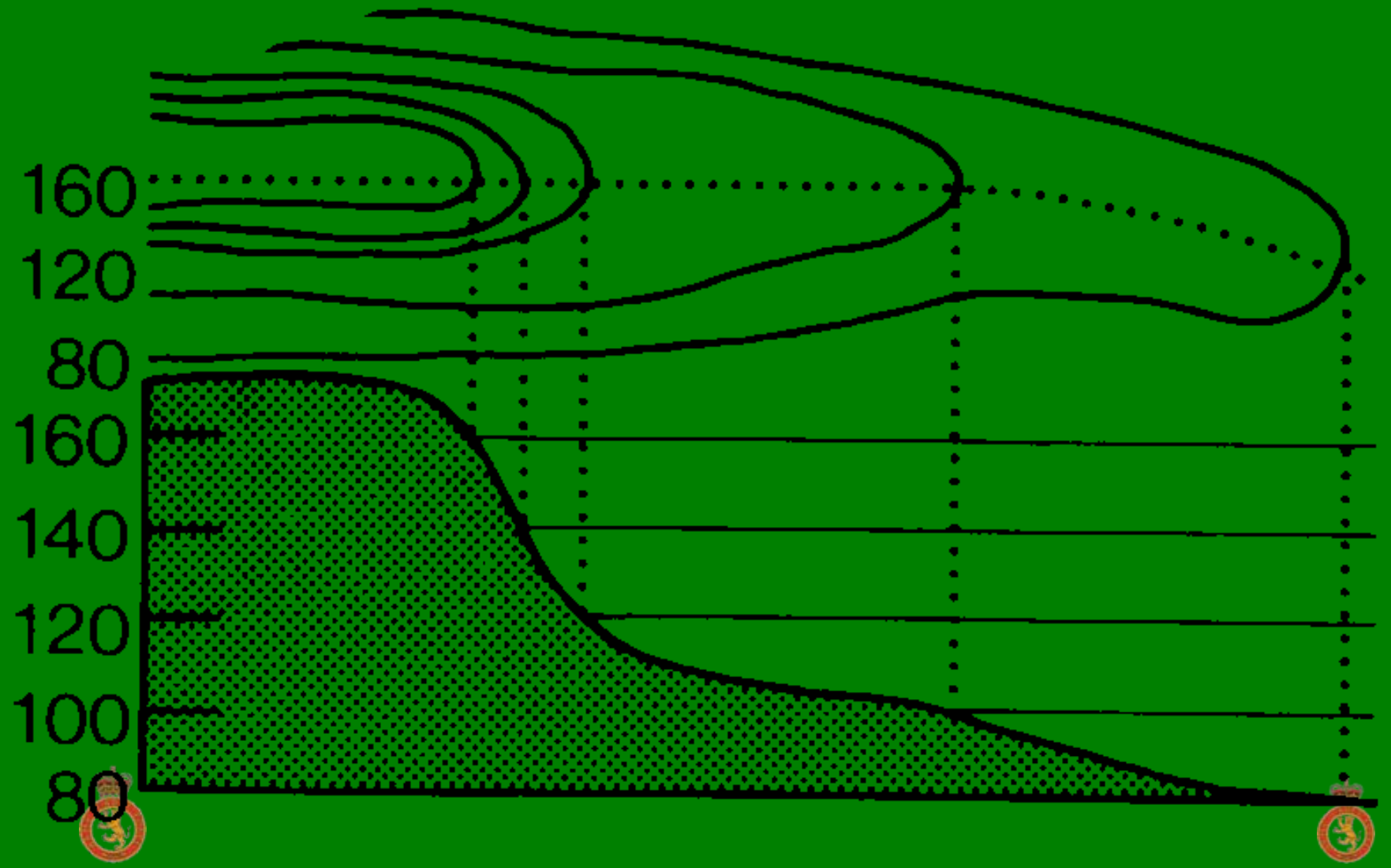
**Slope**



# Concave



# Concave

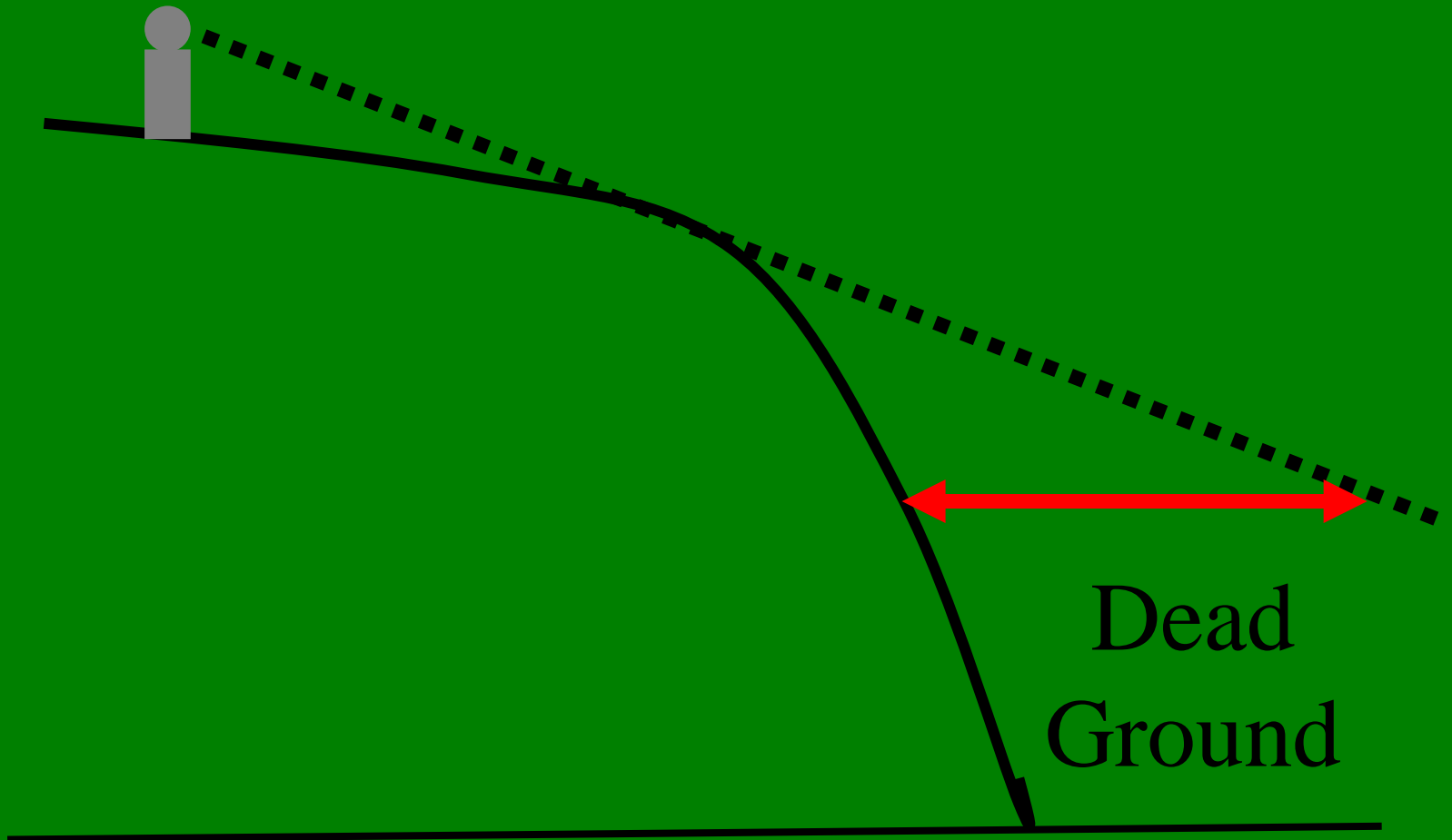


# Convex Slope

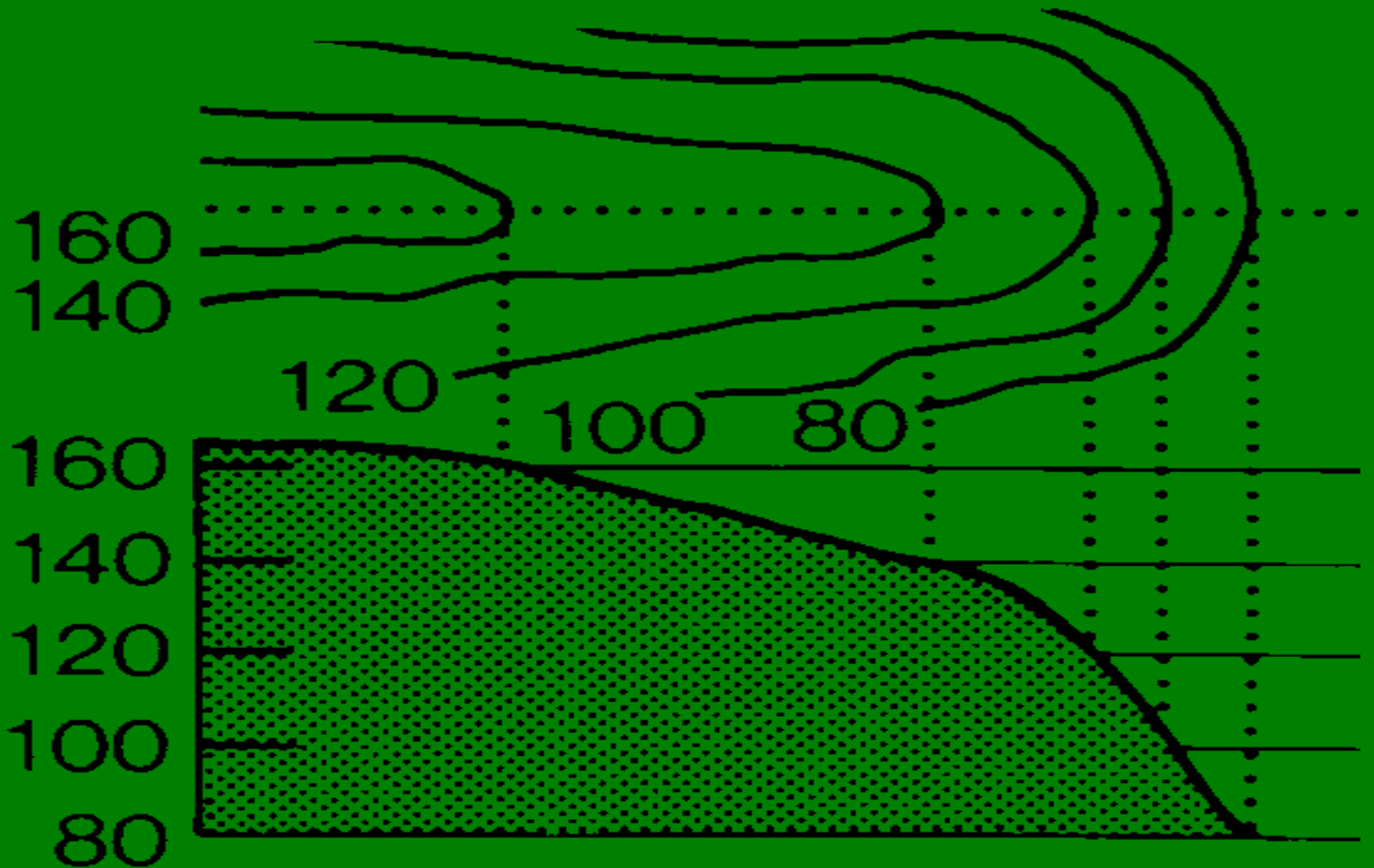
- A slope that bulges outwards
- When standing at the top of the slope you would not be able to see the complete ground below
- The bulge obscures your view which creates “dead ground”



# Convex



# Convex



# Re-Entrant



# Re-Entrant

- Similar to a Spur
- Contours appear as a hairpin shape
- Contours point towards higher ground
- If they point towards lower ground it is a “spur”



**Spur**

**Spur**

120

100

80

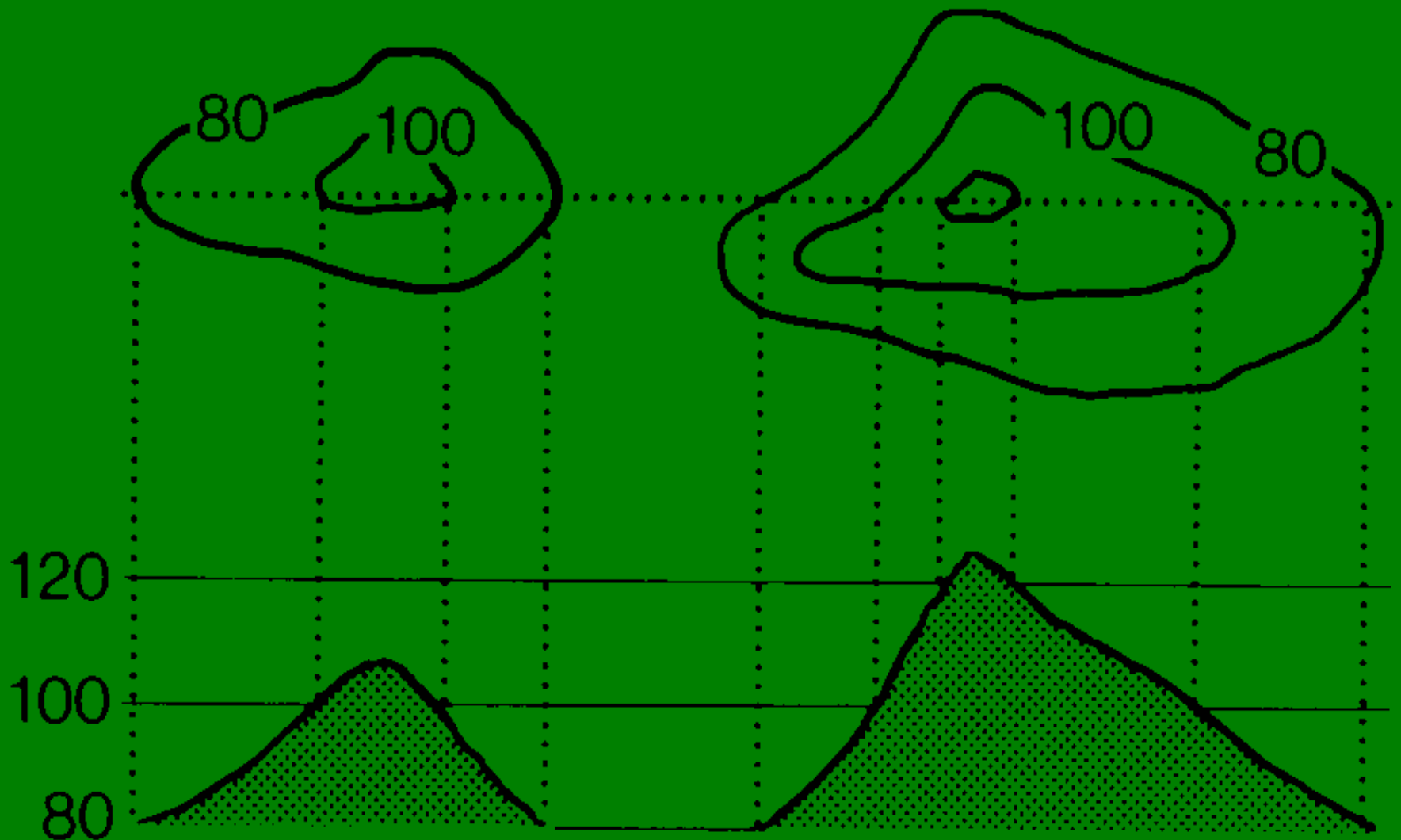


# Spur

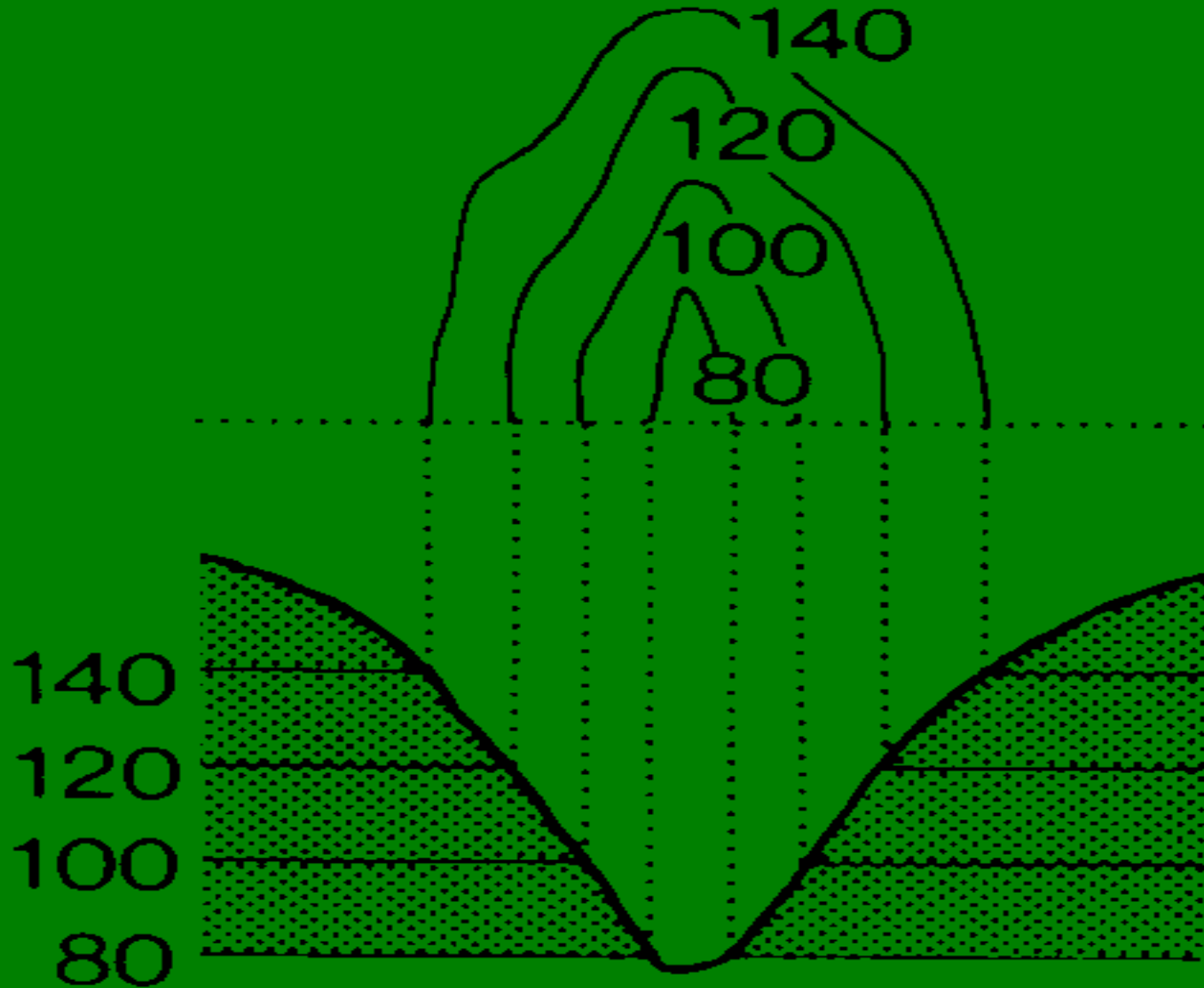
- Spurs appear very similar on a map to a re-entrant
- Bend in the hairpin points to the lower ground
- If it points towards higher ground it is a re-entrant



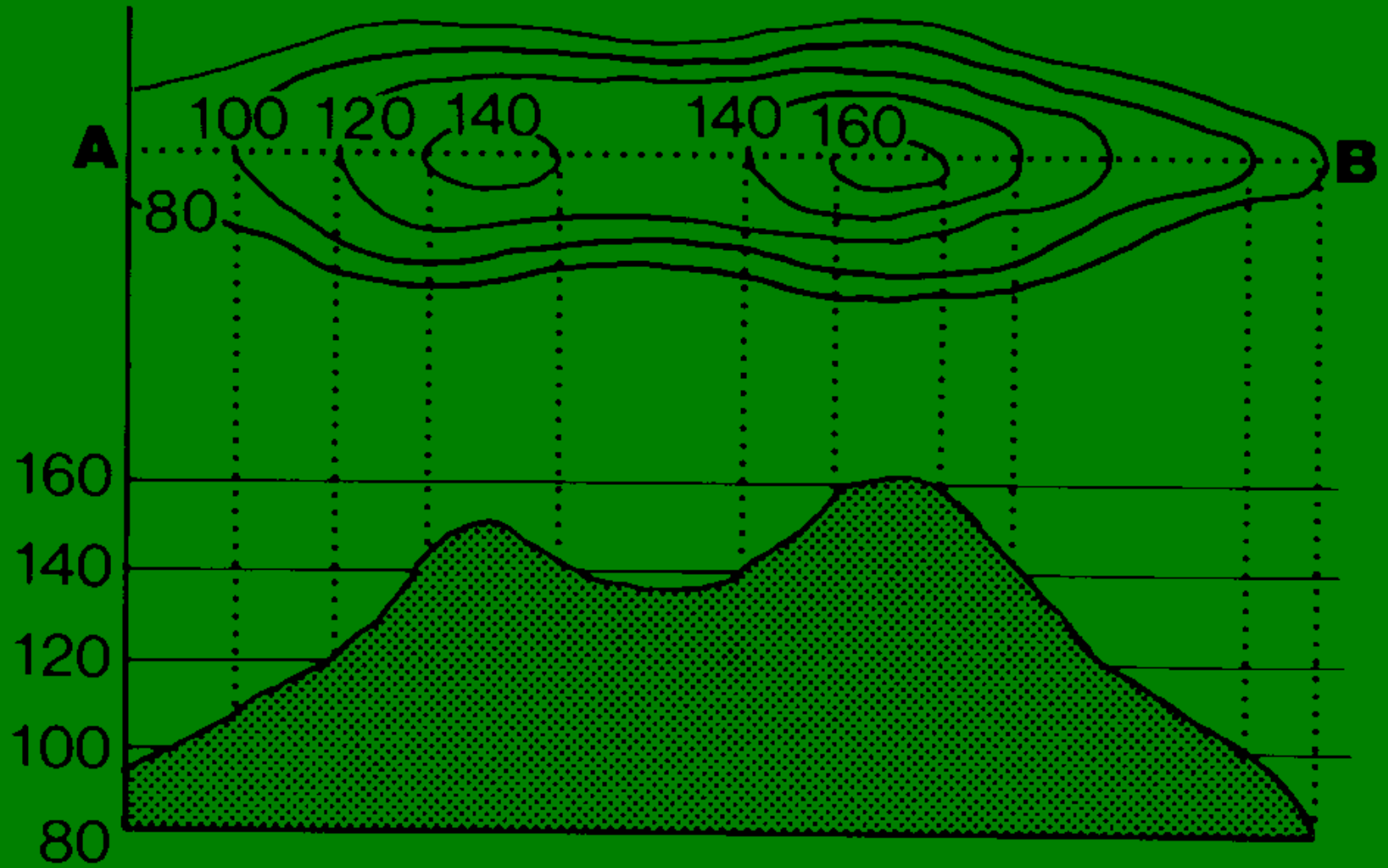
# Seperate Hills



# Steep Valley



# Saddle



# Questions

## Relief and Vertical Interval

What feature is found at grid  
743231? **Saddle**

What feature is found at grid 6928  
(Ballybrissell)? **Concave Slope**

What feature is found at grid  
957437? **Re-entrant**



Any Questions on

Countdown's





**The End**

**The End**



**Presented by**

**"Come on the Micks"**

