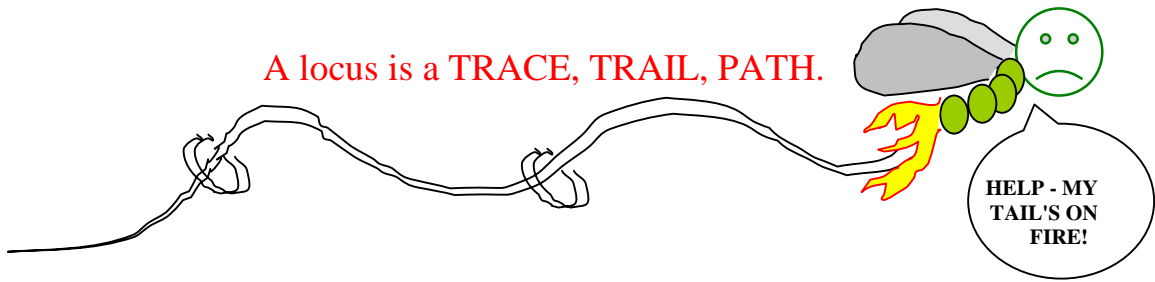
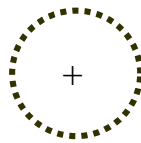


LOCUS

A locus is a TRACE, TRAIL, PATH.



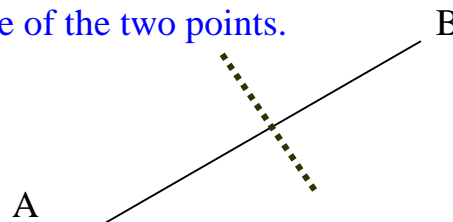
- 1) The **locus** of all points which are a fixed distance from a **point** is a **circle**.



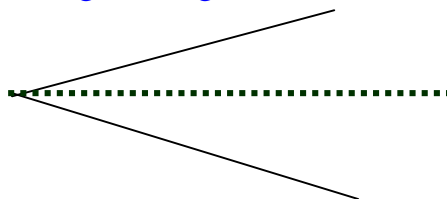
- 2) The **locus** of all points which are equidistant from a pair of lines is a **line through the middle**. Like the live rail between train lines.



- 3) The **locus** of all points which are equidistant from **two points** is a **perpendicular line through the middle of the two points**.



- 4) The **locus** of all points which are equidistant from a pair of lines making an angle, is a **line bisecting the angle**. Like an arrow.

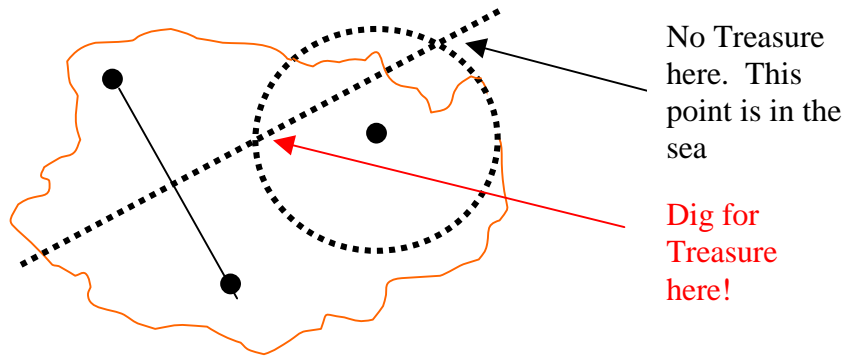


- 5) The **locus** of all points which are a fixed distance from a line - pretend you are playing musical chairs and running round the chairs.



6) A combination of loci.

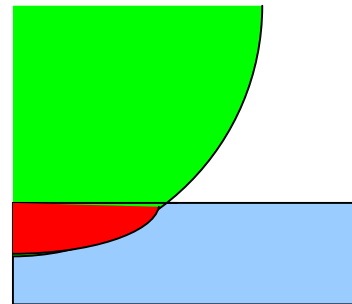
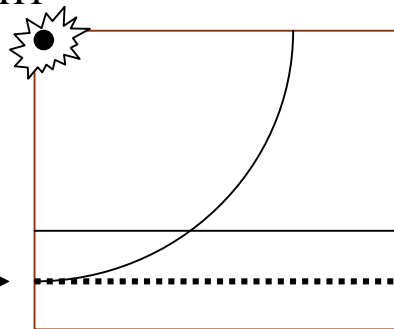
Treasure is buried equidistant from A and B and a fixed distance from C



7) Shading in areas A PRISON YARD 50 M X 50M

SEARCHLIGHT
RANGE
40 METRES

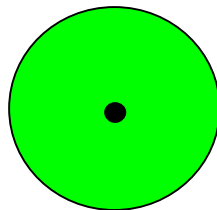
GUARD
WALKS
HERE.
TORCH
RANGE 10
METRES



The red area is where the searchlight and the light from the torch overlap.

8) Donkeys and Goats.

If a donkey is tethered to a stake then the area of grass he can eat is a circle.



If a Goat is tethered to the side of a building the area of edible grass is the green area.

