

Technical drawing



papers

Before analysing the specific tools used in Technical drawing, let's look at the support we use to draw on paper.

- white, colored or apague paper: these are what we normally use for drawing.
- tracing paper ; because it is transparent, waterproof and resistant
- Graph paper : it has millimetric squares printed

Graphic instrument

- graphite pencil
- Mechanical propelling pencil
- Felt pen
- marker
- The eraser: eliminate extra or incorrect lines
- the compass; make arched lines and circles
- Graduated ruler : measure distances
- Set squares ; two triangular set squares from 45° and 60° angles



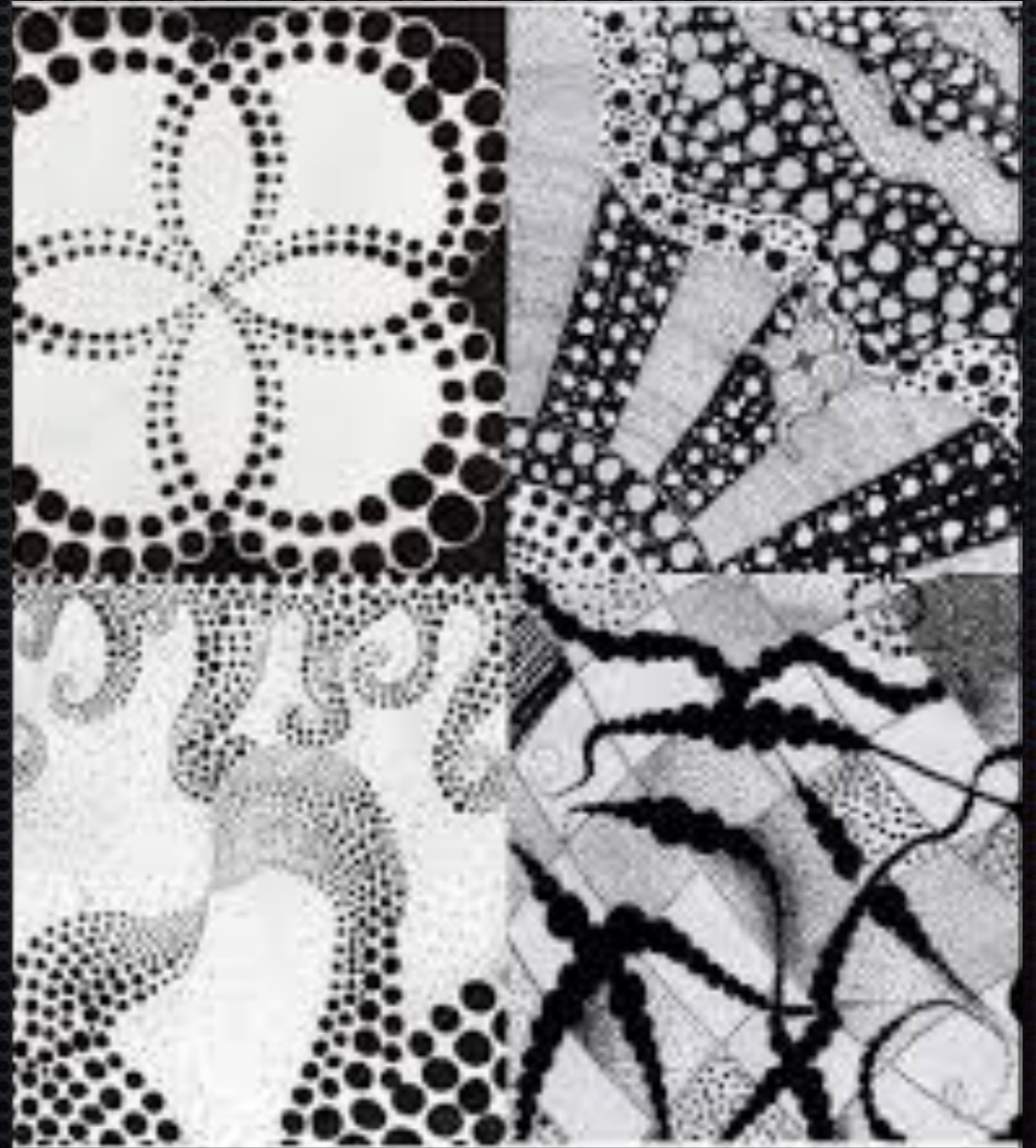
pulsa dentro

point = dot

Line = straight line, curved line , mix line

parallel line , perpendicular line, secant line

- ✦ what a point is? a very small round mark such as; a small point made with a pointed instrument



kandisky



Lines



straight
hills



dots



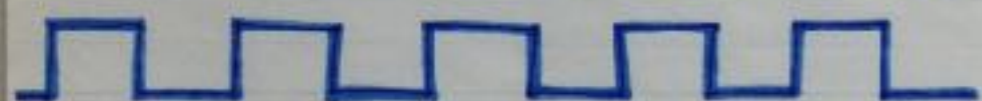
zig-zags



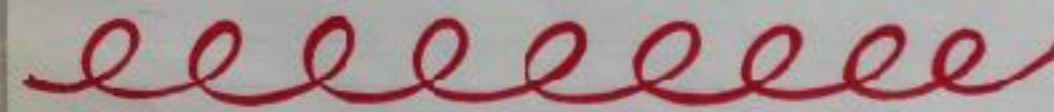
dashes



clouds



castle



loops



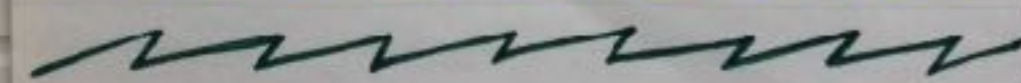
mouse ears



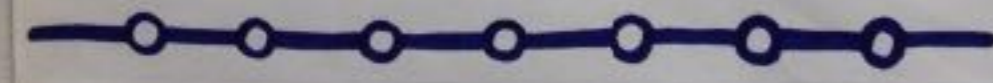
swirls



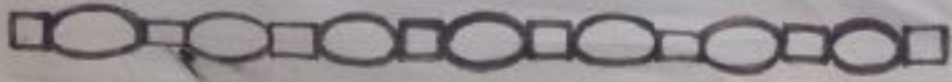
waves



lightning



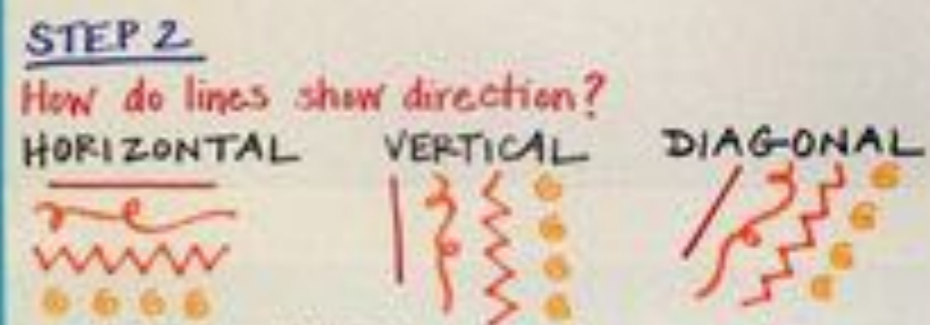
circle chain



shapes

Concept:

"A LINE is a DOT that went for a walk..."



Using WARM colored crayons (RED, ORANGE, YELLOW) draw and overlap your lines horizontally, vertically, and diagonally.



STEP 3 Use COOL colored watercolors (BLUE, GREEN, PURPLE) to fill in the background.

STEP 4 Outline your lines in BLACK.

lines



Line

(línea)

(dotted) lines de puntos

(jagged) zig-zag

(curved) curved

(broken) broken

diagonal (diagonal)

perpendicular (perpendicular)

short (corta)

Vertical (vertical)

(parallel) parallel

(long) largo

horizontal (horizontal)

straight (directa)

wavy (ondulada)

spiral (spiral)

thick (grosso)

thin (delgado)

Element of Art (elemento del arte)

Tipos de línea

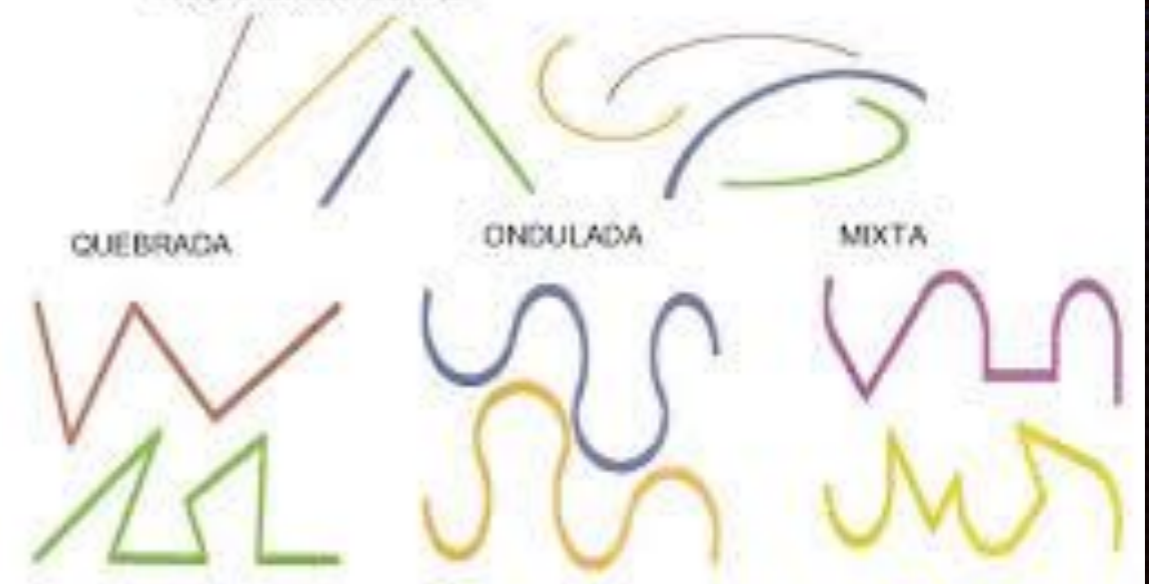
LÍNEA INCLINADA/DIAGONAL

LÍNEA CURVA

QUEBRADA

ONCULADA

MIXTA



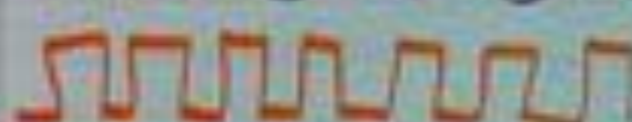
Lines

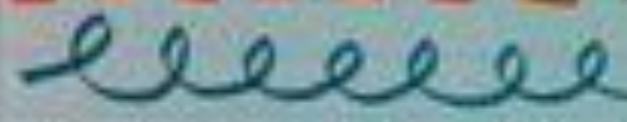
..... polka dots

 zig zag

 thick & thin

 ocean wave


 castle lines

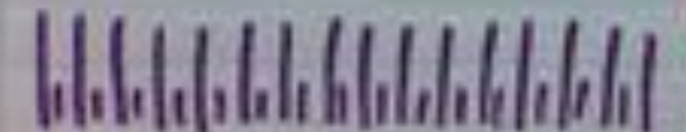
 squiggly

☆☆☆☆☆☆☆☆ stars

 waves

 suns

 broken line

 long & short

 scalloped

 diamonds

 cross-hatch

Examples of line



artist line

Contour *line* Drawing



Courtesy by André Dezoer, 1970

facts:

- A contour is the edge of something.
- Contour drawings use line to show the edge of an object.
- Lines can also describe texture and pattern.
- Contour drawings **never** use shading.

There are two types of contour drawing:

one:

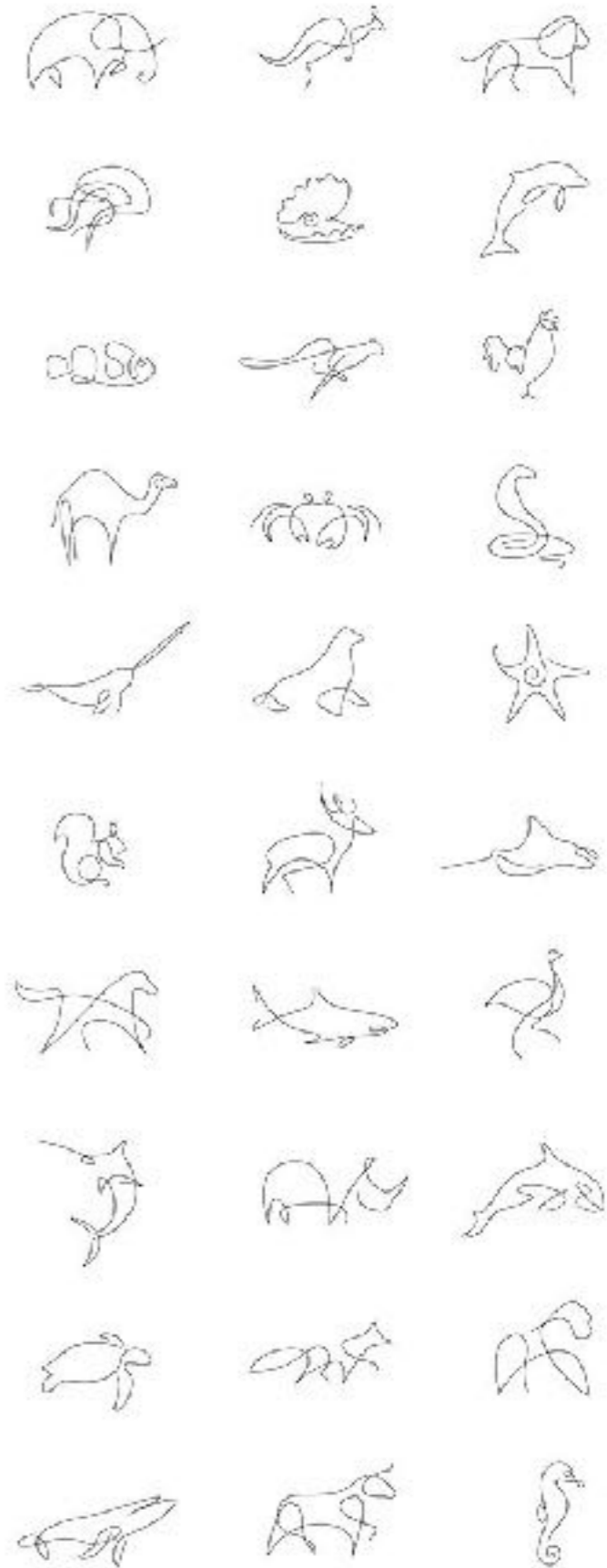
A **Pure contour**, or blind contour drawing is created when you do not look at your paper while you are drawing. Your pencil or pen never lifts off the page, and you must examine the object which you are drawing very carefully; travelling across the edges of your object with your eyes. Imagine you are a tiny ant crawling across the contours of your object. Pure contour drawings are often out of proportion and strange-looking, so don't worry — they are supposed to look odd!

two:

A **Modified contour** is created when you look at your object and your paper for equal amounts of time. This enables you to check the placement of your pencil or pen, and to check proportion.

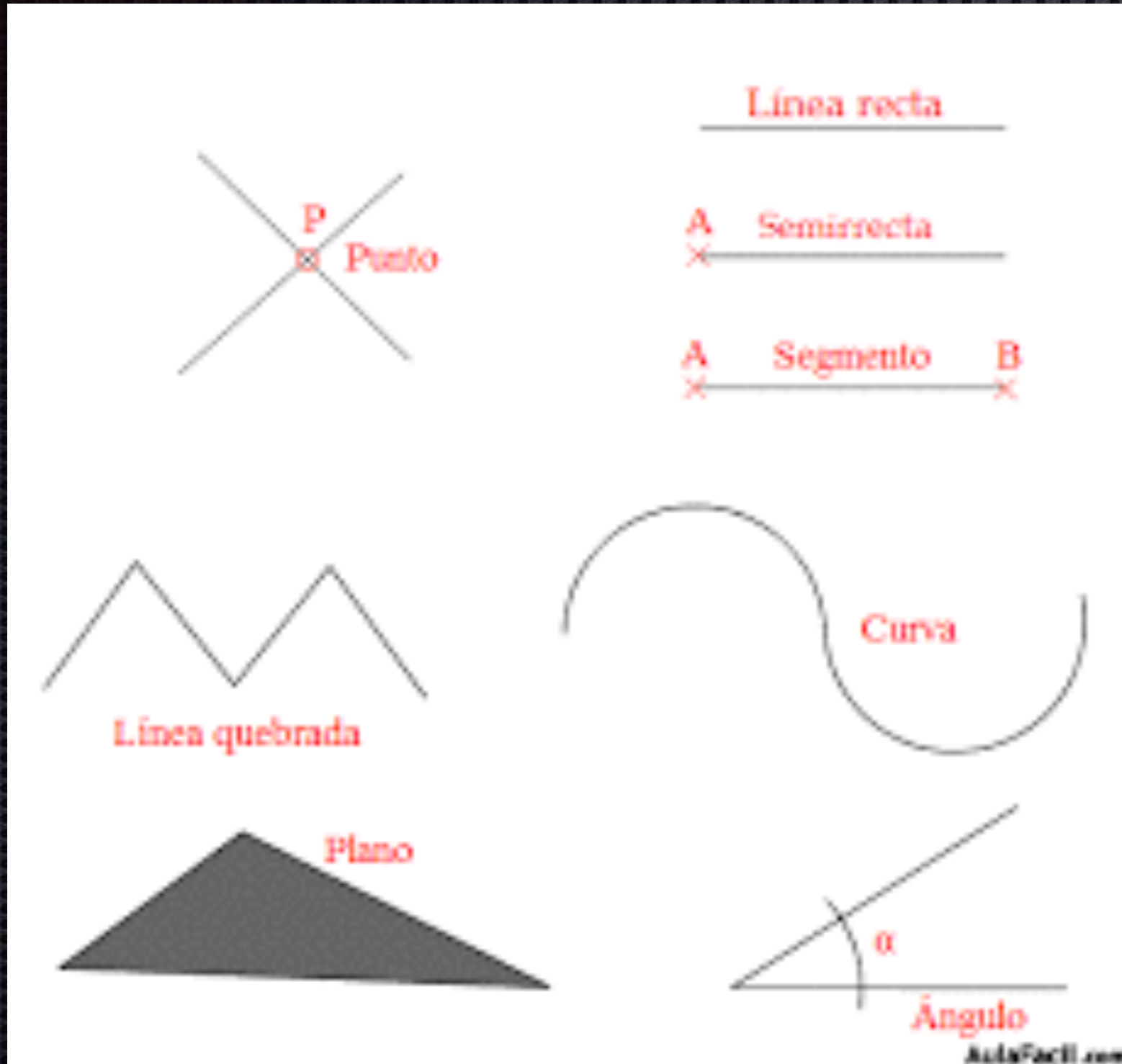


<http://www.artforoneschool.com/es-3c-a-blind-contour-drawing/>





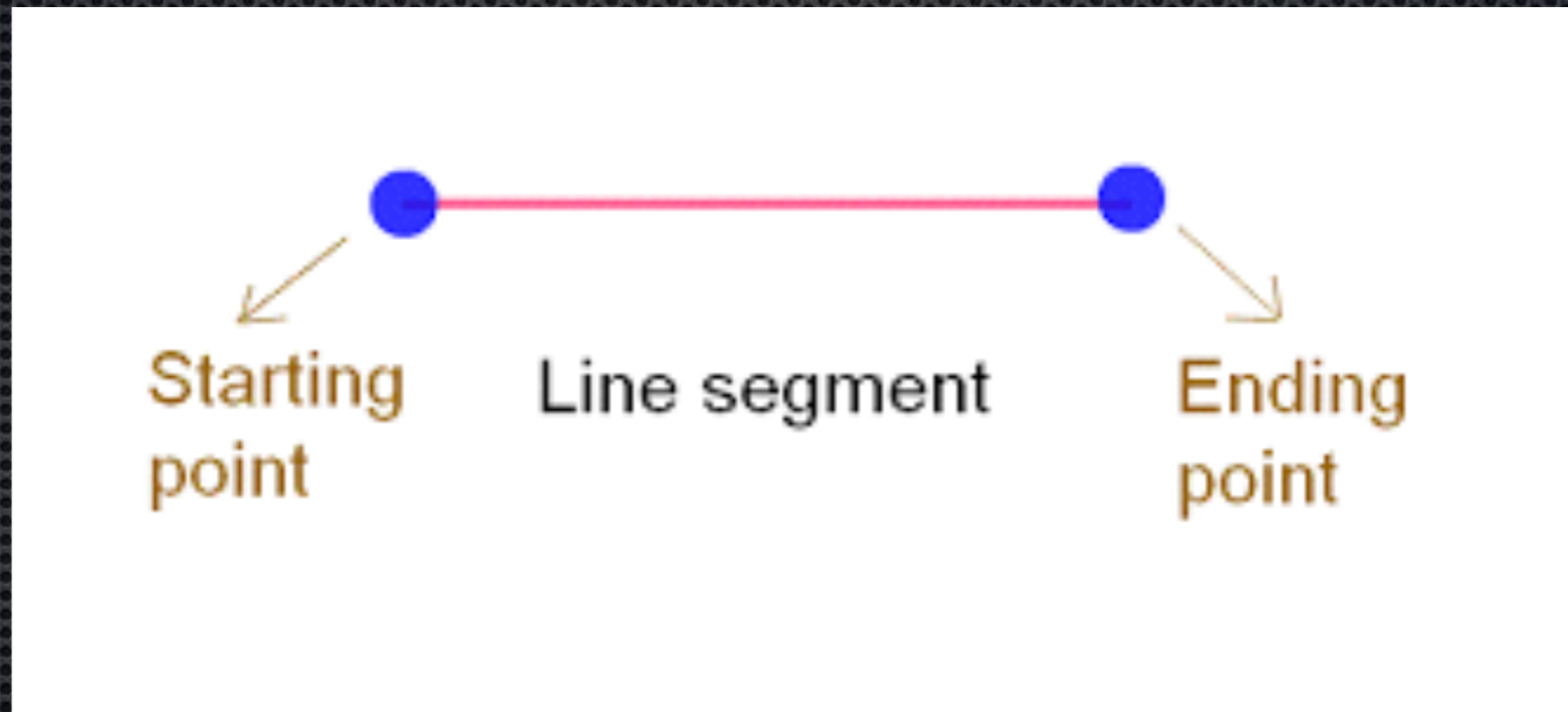
more things



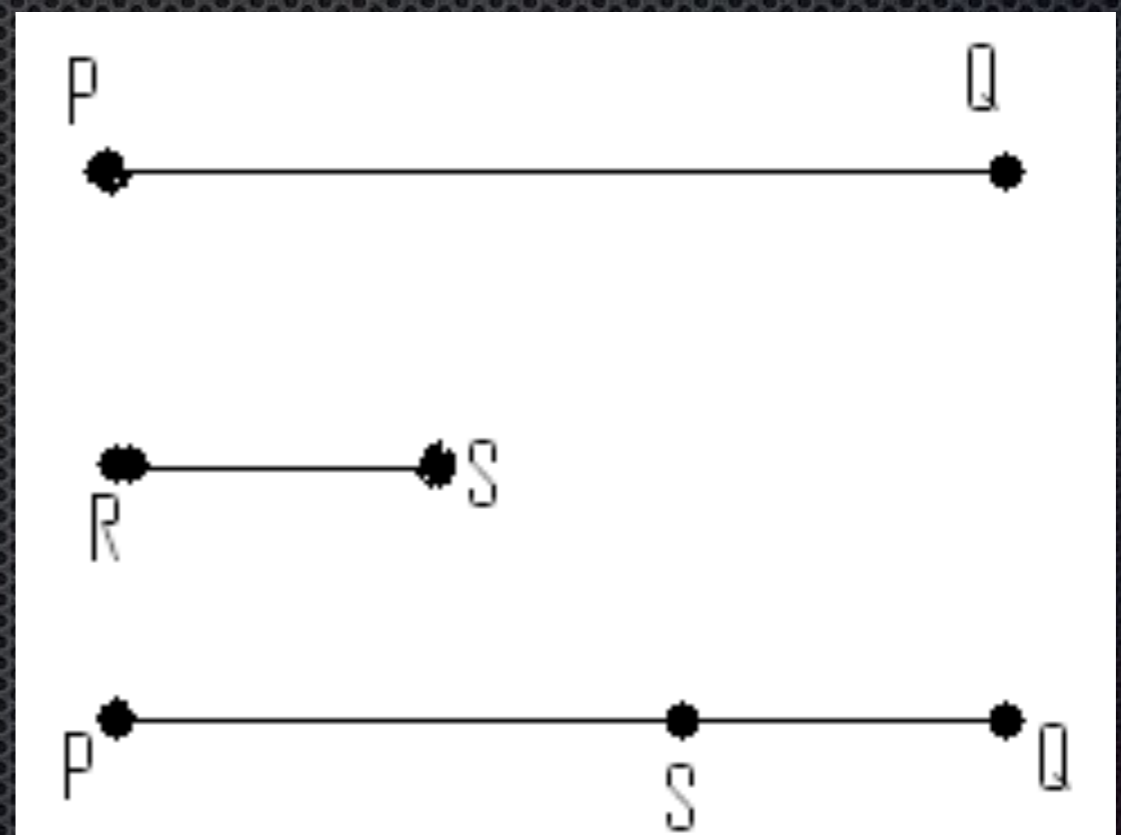
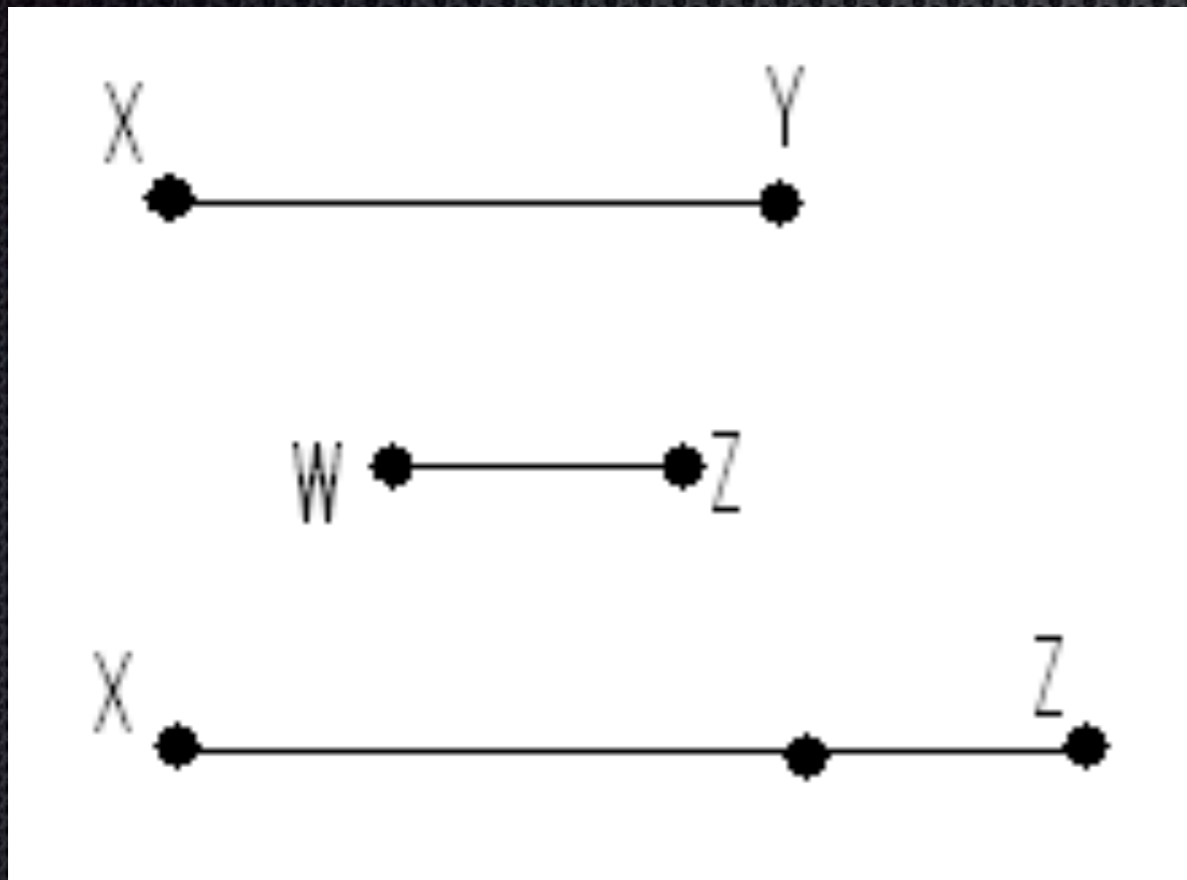
straight line
semi-straight line
segment
angle
plane
curve line

what a segment is?

The part of a line that connects two points. It has definite end points. In geometry, a line **segment** is a part of a line that is bounded by two distinct end points, and contains every point on the line between its endpoints



calculations with segment add and subtracting



dividing : mediatrix

