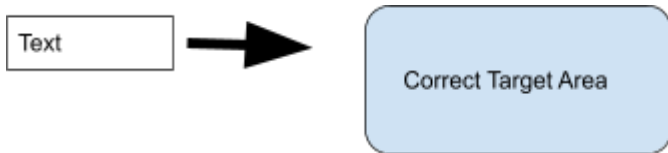


To create a drag and drop activity with feedback

Basic operation required

User drags some text into a correct target area and receives feedback



Geogebra representation See example at <https://www.geogebra.org/m/vwydwwnj>

Text in a box

The box is a rectangle (polygon) and the text can be the caption
eg. the rectangle q1 is $q1 = \text{Polygon}(A, B, C, D)$.

Correct Target Area

It is also a rectangle (polygon) $q2 = \text{Polygon}(E, F, G, H)$

Detection of text in box inside Correct Target Area

Use one corner of the text in box ie, left corner say is D.

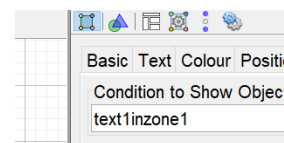
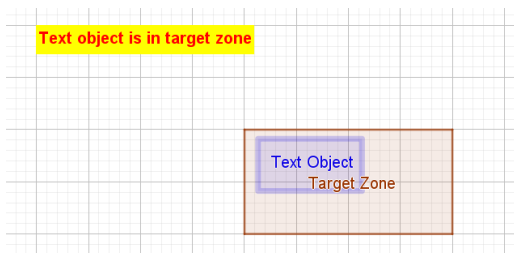
Use the boolean variable (which gives value true or false)

$\text{text1inzone1} = \text{IsInRegion}(D, q2)$.

text1inzone1 will be true if D is inside q2

text1inzone 1 will be false if D is outside of q2

The text "Text object in in target zone" has its "Condition to Show Object" as the variable text1inzone1
So when the text box with corner D (bottom left) is inside Target Zone (q2), text1inzone1 is true
and the text appears



If you have ten labels and ten target zones, create ten pairs of the above

Other examples

1. Using IsInRegion to create Hotspots

<https://www.geogebra.org/m/xYj8q3MW>

Hotspot Design

Example of Hotspot Design

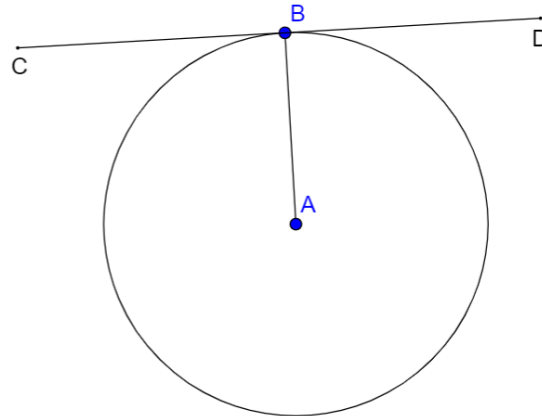
1. Use of IsInRegion[Object,Closed Region]

Closed regions include poly, circles, circular sector objects. The object is point K_p (following blue arrow)

2. For each hotspot use a boolean variable(named) with part 1 above for easy reference and deployment

3. For creating hotspot to circle, use concentric circles enclosing the original circumference (c_i and c_o surrounding c)

Drag the blue arrow to various parts of the diagram to see the descriptions



$i_w = 0.03$ $i_h = 0.06$

Note :

i_w and i_h are for resizing the arrow pointer

2. Matching Pair Quiz Template

<https://www.geogebra.org/m/Yr7DF9qX>

Internally set item i to ellipse ci.

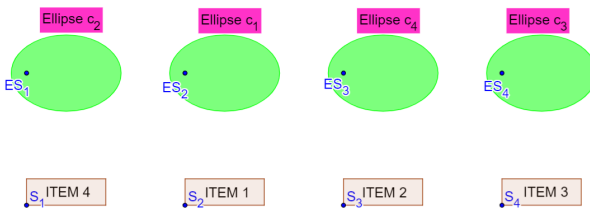
Shuffle items and ellipses on RESET

Internal checkij for item i's corners j = 1 to 4, inside region ci

Done - feedback for each region ci

New Question Check Answer RESET

Your score now : 0



set up shuffle P1 to P4 (initial only)

Set up Shuffle Ellipses (initial)

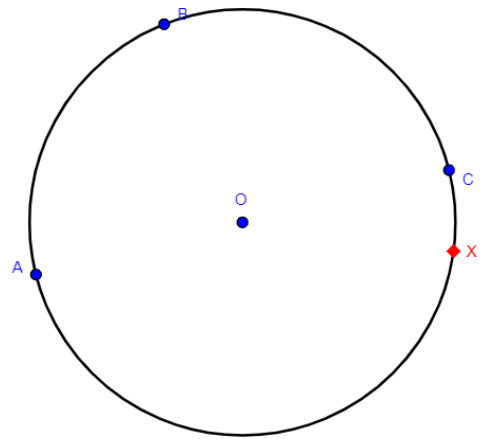
☒ Show Location Pts n Other

Start Quiz

RESET

Name of Part of Circle shown :

Drag answer into this box



radius

minor arc

diameter

major arc

chord

minor sector

tangent

major sector

semi circle

minor segment

major segment

