

NOTES
Day 2

Geometry (H)
Section 9.2 - Common Tangents

Last class we learned about theorems related to tangents. Today we will define and use common tangents.

A line that is tangent to each of two coplanar circles is called a **common tangent**.

Common internal tangent - DOES intersect the segment joining the centers of the 2 circles.



Common external tangent - does NOT intersect

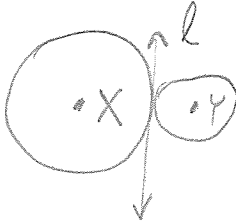


← common internal tangent

A circle can be tangent to a line, but it can also be tangent to another circle.

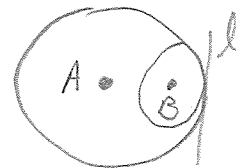
Tangent circles - intersect in exactly one point
 - they may be externally or internally tangent
 - tangent to same line at same point.

Externally tangent circles



Internally tangent circles

- when one circle lies inside the other



State the number of external tangents and internal tangents that exist for each pair of circles. Sketch them.

