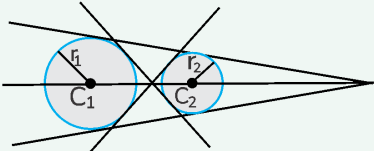
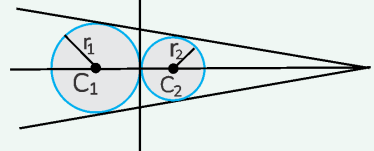
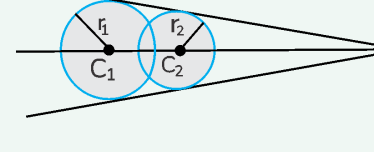
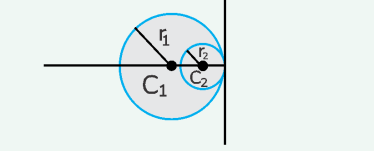
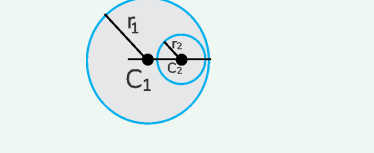


Important figures to keep in mind for 'common tangents' concept. Common tangents depends on the relative position of two circles, so it useful to keep these figures and conditions in mind.

RELATIVE POSITION OF TWO CIRCLES

Condition	Figure	Number of Common tangents
$C_1C_2 > r_1 + r_2$		4
$C_1C_2 = r_1 + r_2$		3
$ r_1 - r_2 < C_1C_2 < r_1 + r_2$		2
$C_1C_2 = r_1 - r_2 $		1
$C_1C_2 < r_1 - r_2 $		0

Relative Position of Two Circles