The number of common tangents to the circles $x^2+y^2-4x-6y-12=0$ and $x^2+y^2+6x+18y+26=0$, is:

DOPREP

(1) 3

- (2) 4
- (3) 1
- (4) 2

$$\chi^{2} + y^{2} - 4 \times - 6y - 12 = 0$$
 Centre $C_{1} = (2,3)$

Radius 91 = 5

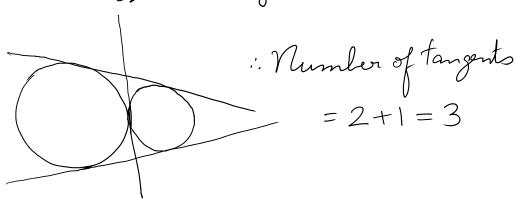
$$x^2 + y^2 + 6x + 18y + 26 = 0$$
 (entre $C_2 = (-3, -9)$

Radius 92= 8

C, C2 = distance between the 2 centres

$$= \sqrt{5^2 + 12^2} = 13 = 9, +9, 2$$

i. The two circles touch each other externally



.. Correct oftion is (1)