

$C(a, b)$ radius

$$x^2 - 2x + y^2 + 10y - 19 = 0$$

$$(x-1)^2 - 1 + (y+5)^2 - 25 - 19 = 0$$

$$(x-1)^2 + (y+5)^2 = 45$$

$$C(1, -5) \quad \text{radius} = \sqrt{45}$$

ii) use $(x-1)^2 + (y+5)^2 = 45$

when $x=7, y=-2$

$$\text{LHS} = (7-1)^2 + (-2+5)^2$$

$$= 6^2 + 3^2$$

$$= 36 + 9 = 45 = \text{RHS}$$

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