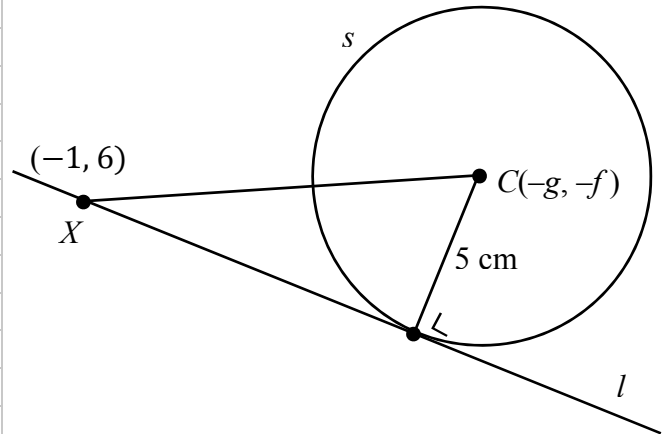
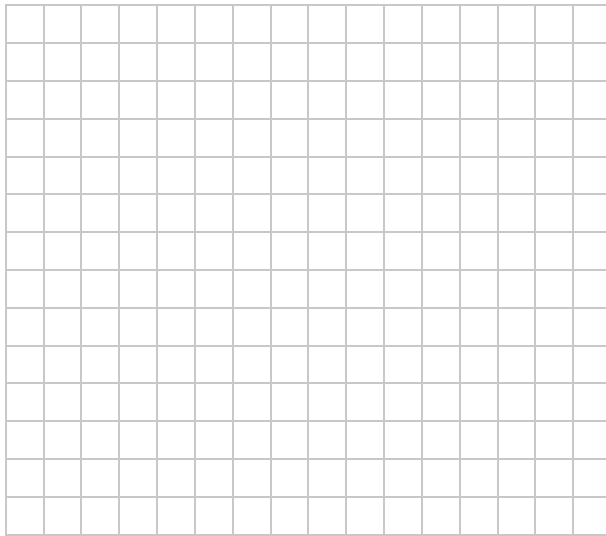


Question 2

(25 marks)

A point X has co-ordinates $(-1, 6)$ and the slope of the line XC is $\frac{1}{7}$.

- (a) Find the equation of XC . Give your answer in the form $ax + by + c = 0$, where $a, b, c \in \mathbb{Z}$.



- (b) C is the centre of a circle s , of radius 5 cm. The line $l: 3x + 4y - 21 = 0$ is a tangent to s and passes through X , as shown. Find the equation of one such circle s .

