**6** A circle has equation

$$x^2 + y^2 + 10x - 4y - 71 = 0$$

**6 (a)** Find the centre of the circle.

**[2 marks]**

**6 (b)** Hence, find the equation of the tangent to the circle at the point (1, 10), giving your answer in the form $ax + by + c = 0$ where $a$, $b$ and $c$ are integers.

**[4 marks]**