

10 A triangle has vertices $A(1, 4)$, $B(7, 0)$ and $C(-4, -1)$.

(a) Show that the equation of the line AC is $y = x + 3$. **[2]**

M is the midpoint of AB . The line AC intersects the x -axis at D .

(b) Determine the angle DMA . **[7]**