9C First Two SUVAT Equations

	A cyclist is travelling along a straight road. She accelerates at a constant rate from a speed of 4ms ⁻¹ to a speed of 7.5ms ⁻¹ in 40 seconds. Find: The distance travelled over this 40 seconds
b)	The acceleration over the 40 seconds

2.	A particle moves in a straight line from a point A to B with constant deceleration of 1.5ms ⁻² . The speed of the particle at A is 8ms ⁻¹ and the speed of the particle at B is 2ms ⁻¹ . Find:
a)	The time taken for the particle to get from A to B
b)	The distance from A to B
c)	After reaching B the particle continues to move along the straight line with the same deceleration. The particle is at point C, 6 seconds after passing through A. Find: The velocity of the particle at C
d)	The distance from A to C