6.	What is the acceleration of a racing car if its speed is increased uniformly from 44.0 m/s to 66.0 m/s over an 11.0 s period?
7.	An engineer is to design a runway to accommodate airplanes that must gain a ground speed of 360. km/h (approx. 225 mi/h) before they can take off. These planes are capable of being accelerated uniformly at the rate of 3.60×10 ⁴ km/h ² .
	 a. How many kilometers long must the runway be? b. How many seconds will a plane need to accelerate to take-off speed?
8.	A plane flying at the speed of 150. m/s is accelerated uniformly at a rate of 5.00 m/s ² . a. What is the plane's speed at the end of 10.0 seconds? b. What distance has it traveled?
9.	A Tokyo express train is accelerated from rest at a constant rate of 1.00 m/s ² for 1.00 minute. How far doe it travel during this time?
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10.	In a vacuum tube, an electron is accelerated uniformly from rest to a speed of 2.60×10 ⁵ m/s during a time perio of 6.50×10 ⁻² seconds. Calculate the acceleration of the electron.