

An object is moving with constant velocity $\sim v$. Which situation is impossible in such a circumstance?

Answer

A situation is impossible in such a circumstance - one force acts on the object. Because when the object is moving at constant velocity it means net force is zero. If one force acts on the object, net force is always not a zero. All the other combinations (no forces, two forces, three forces ...) could give a resultant force equal zero.