Kinetic theory approach of the wave instabilities of collisionless plasma SANAZ E. NAMINI, HADI ZAKERI KHATIR, MAHMOOD GHORAN-NEVIS, MOJTABA (FARZIN) AGHAMIR — In this paper the wave properties and instability in magnetized and collisionless plasma by taking self-electric and self-magnetic fields are considered. The equilibrium particle distribution is assumed to be Maxwellian for nondegenerate plasma. The dielectric tensor for the collisionless plasma is obtained on the basis of Vlasov equation. The result of this study is compared with the finding of the previous investigation in which wave properties and instability in magnetized and collisionless plasma in the fluid approximation. Also we have investigated the effect of self-magnetic field in wave properties in magnetized and collisionless plasma.