

# HITT

---

**Which of the five equations describes simple harmonic oscillations along the z-coordinate?**

(a)  $\dot{z}(t) = 9 z(t)$

(b)  $\ddot{z}(t) = 4 z(t)$

(c)  $\dot{z}(t) = -9 z^2(t)$

(d)  $\ddot{z}(t) = -4 z^2(t)$

(e) none of the above