- The torque is still into the page. So we still need to gain L into the page. Since I is zero instally, it just needs to start rotating about the pivot to develope the necessary I.
- Q2 It precesses (rotates) around &, first coming out of the page.
- Q3 It can't do that because it would violate angular momentum conservation. There is no torque in that direction, We would need a torque, ie change it's an qu'au moment um.
- QY The HE) state is a stationary state for this operator. So the probability does not change, because the 127 component of 14(0) > is constant.
- Q5 1) Initially in the It27 state means $\alpha = 1, b = 0$ so $|\langle + \times | \times (t) \rangle|^2 = 1$, again It27 is stationary

 so No time dependence, and It27 has 50% chance to yield I+x>

 - So we see that the state is "swinging around the t axis"

 3) | <+x | 4(4) | 2= \frac{1}{2} + \frac{3}{10} \cos wot . Since it's mostly aligned with \tau, I get a small "swinging component" but mostly a 50% mix,
- Q6 They should be. See comments above.

Q7

Tinteg band

d(t)

time

rapidly oscillating thing times d(t)

Since the rapidly oscillating thing xdlt) is negative as much as positive, it integrates to O. On the other hand, my sample d(t) is always positive.

By d(t) is the new stuff associated with by

bx is supposed to be a small perturbation,

that slowly rotates It? > to 1-t > . Since Bz

is a stronger field wo will be bigger

and it wo will be bigger

and it wo will be bigger

-iwi e (wo - w)t o to will be bigger

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ë - ε (ω, -ω) c + (ω,)2

alo we get $|\langle -1| / (+) \rangle|^2 = 0$, so if we start in |+1| we'll hever be found in |-1| without the Bx field that makes w, $\neq 0$

QII W= Wo, like driving on resonance,

QIZ Less time, the thing in front of tis

Q13 We can flip spins faster, and the resonance curve gets broader

large wy Small w, w

We have a higher probability to flip off resonance.