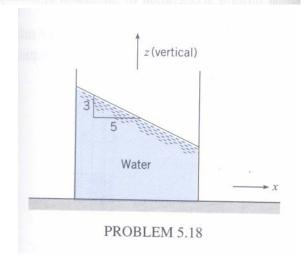
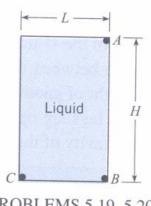
5.18 This tank is accelerated in the x direction to maintain the liquid surface slope at -5/3. What is the acceleration of the tank?

5.20 The closed tank shown, which is full of liquid, is accelerated downward at $\frac{2}{3}$ g and to the right at one g. Here L=2 m, H=3 m, and the liquid has a specific gravity of 1.3. Determine $p_C - p_A$ and $p_B - p_A$.





PROBLEMS 5.19, 5.20

36 - 1212 5	(
5= - e(3+ 9=) = - se,	(g+92) = -1.3.1000. (9.81 - 3.9.81)
	= - 4 251 W/m3
PA-PB = - 4251	yessure denever + +
28-20	mneser - 2
Pa-Pa = -4251 (70-	Zn) = 12.75 2Pa
Po- PA = - 4251 (20-	
78 00 - 50 -	12 7/ 10
DP = -egx = -sew g	= - 12.75 2Pa premie decupat
10-pc = -12.75 2 Pa	
X8-xc	
m n = -12.75 (V	-x) - 25 51AP.
Pc-PB = -12.75 (XC	18) = 13.31213
PPA= 38.26 1	- Pa
5.18	
2.18	
ton 0 = Ax . X	=> x= gtona
8+a+ 3	=> x=gtona
	= 9.81 x 3/5