Ex. 2 a) m(t)=2 cos (2st/wt) - (os(2st 500t) KA= 0,2, fc = 1500 leftz, Ac = 10 V Formula: SLE) = Ac (1+ (a m(t)) cos (25 fct) God dray der sætter ind " . S(t) = 10 (1+0.2 (2(0)(254100t)- (0) (25-500t)) (0) (25-1.5E6t) b) Nu til (pelctrum DSBsc Ac=2, S(t) = Acka M(t) los (2Rfet) The fra Slider Set ind; $S(t) = 2.0.2(2\cos(2\pi 100t) - \cos(2\pi 500t)) \cdot \cos(2\pi 1500e3t)$ Amplifud i tin \$ 0.8 0.4 $S(f) = \frac{Ac}{2} \left(M(f-f_c) + M(f+f_c) \right)$ Solting: = $\frac{2}{2} (0.8) (f - 1500 - 100) + 5(f - 1500 + 100) - 0.4) (f - 1500)$ $(-500) + {(f + 1500 + 500)}$ "En halvdel of spektrummet o.8, den anden del er speilet ombring de 4 0 204 1400 1600