38

lesson

Agenda: 9/16/15

Hw leader:

lesson 38

Integral of a Sum

Period 3

て なら

Sierra L. Period 4

Test 2 on Friday

Recall: $\frac{d}{dx}(F(x) + g(x)) = \frac{d}{dx}(F(x)) + \frac{d}{dx}(g(x))$

(f(x) + g(x)) dx = [f(x) dx + [g(x) dx

 $\frac{d}{dx} \left[\int (f(x) + g(x)) dx \right] = f(x) + g(x)$ Because

dx [[fix)dx + fgix)dx] = dx[[fix)dx] + dx[[gix)dx] = fix) +gix)

Ex. Evalueate ((2x + ex + 3 cus(x)) dx

= [2xdx + [exdx + [3ws(x)dx

= 2 x dx + (exdx + 3) ws(x) dx

= (2x2+C,) + (ex+C2) + (35in(x)+C3) = X2 + ex + 35in(x) + C Where Ex 38.3 Integrate: [(= +3t" +4 (05(+) +3sin(+))d+

771/1/145in(1)-36s(4)+C