(3) (9) We see by the FT( that
$$f(-5) = f(1) + \int_{-5}^{1} 9(x) dx$$

$$= 3 - (1 - 3x)_{-5}^{2} + (5 - 3x)_{-2}^{-1} + (5 - 0)_{-1}^{0} + (5 - 2x)_{0}^{1}$$

$$= 3 + \frac{17}{2} = \frac{25}{2}$$

(b): The area under [1,3] is 4, 
$$t$$
 and  $\frac{62(x^2-8x+16)}{3} = 2(\frac{x^3-x^2+16x}{3} + \frac{16x}{3})$   $\frac{6}{3} = 2(x-4)^2 = (\frac{2}{3}(x-4)^3)\frac{16}{3} = \frac{16}{3} + \frac{2}{3} = 100$  Thus,  $\frac{6}{3} = 6 + 4 = 10$ .

- (4,6), no see that the first derivating and second are both positive; thus, on these ranges the function is cancare up.
- (d): There is one goint of inflection at the single gll(x) goo from dere negative to positive there.