$$|\zeta(x)| = 5x^3$$
$$= 15x^2$$

2. 
$$f(x) = 7x^2 + 5x + 4$$
  
=  $14x + 5$ 

$$3i$$
  $f(x) = 5in 2x$   
=  $2\cos 2x$ 

4. 
$$f(x) = ln(3x+1)$$
  
 $= \frac{1}{3x+1}$ , 3  
5.  $f(x) = e^{5x+3}$   
 $= 5e^{5x+3}$ 

$$6. f(x) = \frac{4}{x^3} + \frac{2}{x^2} + x + 7$$

$$= 4x^{-3} + 2x^{-2} + x + 7$$

$$= -12x^4 - 4x^3 + 1$$

7. 
$$f(x) = sin x + cos x + ton x + sec x$$
  
=  $cos x - sin x + sec^2 x + sec x ton x$ 

8. 
$$f(X) = (3x+2)^2$$
  
= 2 (3x+2). 3  
= 18x+12

9. 
$$f(x) = \chi^{2} e^{2x}$$
  
=  $\chi^{2} \cdot (e^{2x})' + (\chi^{2})' \cdot e^{2x}$   
=  $2\chi^{2} e^{2x} + 2\chi \cdot e^{2x}$   
=  $2\chi e^{2x} (\chi + 1)$ 

$$|0| f(x) = \sin x \sec x$$

$$= \sinh x \cdot \frac{1}{\cos x}$$

$$= \tan x$$

$$= \sec^2 x$$