11. 
$$f(x) = 7x^2 - 5x + 7$$

$$f^{(x)} = 2.7x - 5 + 0$$

$$- |y| \times 5$$

15. 
$$f(r) = 6e^r$$

19. 
$$h(t) = e^t - \sin t - \cos t$$

25. 
$$f(x) = (2-3x)^2$$

8. 
$$g(x) = 2x^2(5x^3)$$

$$2x^{2} \cdot [5x^{2} + 5x^{3} \cdot 4x]$$

20. 
$$g(t) = \frac{t^5}{\cos t - 2t^2}$$

$$\frac{(cost - 2t^{2}) se'l - t^{s}(-s'nt - 4t)}{(cos^{2}t - 4t^{2}cost + 4t')}$$

$$y' = f'(g(x)) \cdot g'(x).$$

$$Sin(X^2)$$
 (os( $X^2$ ),  $2X$ 

$$\frac{1}{\sqrt{2}} \ln(x^4)$$

$$U = x^4$$

$$\frac{1}{\sqrt{2}\ln(u)}$$

$$\frac{1}{\sqrt{2}}\frac{1}{\sqrt{4}}\frac{1}{\sqrt{3}}$$

$$(1-x)^{2}$$

$$(1-x)^{3}$$

$$(1-x)^{4}$$

$$f = x^{2}$$

$$f = x^{3}$$

$$f = x^{4}$$

$$g = 1-x$$

$$g = 1-x$$

$$f' = y = x^{5}$$

$$f' = x^{5}$$

$$f'$$

$$\begin{cases}
Sin(e^{x}) \\
f = x^{2} f = 2x f(g Lh(x)) \\
g = sin x g = (a) \\
h = e^{x} h = e^{x} f'(g(h(x))) \cdot \frac{1}{e^{x}} [g(h(x))] \\
f'(g(h(x))) \cdot g'(h(x)) \cdot h^{h}(x)
\end{cases}$$

$$2 \left[Sin(e^{x})\right] \cdot (os(e^{x})e^{x}\right]$$

$$10. h(t) = e^{3t^{2}+t-1}$$

$$f = e^{x} f' e^{x}$$

$$g = 3t^{2}+t-1$$

$$f'(g(s)) g'(x)$$

$$In(-3(os(sx+1))$$

$$f = hx f' = x$$

$$g = -3(as x g' = 3 sin x$$

$$h = sx+1 h' = 5$$

$$-3(os(sx+1)) \cdot 3sin(sx+1) \cdot 5$$

$$-3(os(sx+1)) \cdot g'(h(x)) \cdot h'(x)$$

$$f'(g(h(x))) \cdot g'(h(x)) \cdot h'(x)$$

35/h L(XX) . (SXX)

- 5 tan (Sx+1)

Pevimeter = 2x+2y wea = xy

100ft

 $A = \chi (So-X)$ 

 $A = 50 \times - \times^2$   $A = 50 - 2 \times$ 

A=0 at x=25

100 = 2x +27 A = xy

100-2X =2X >0x=x A=x(60-x)



