```
ydnandi - quie 5
13 pure
 p. evie
 c tales
 d. true
20. Rim 25mx 6m2x lm 25mx lin (1-005x) = 2 · 2+0 tan2x = 11
     1x2+2ex) en (Hex) + (x2+2ex)(et a)
            , when 300 30 y -> q
            ) = entre lo encine dis) ~
      = 2000 ex
 3. Area =2xr2+xxx 2arh = 2x (r2+rh)=2
                         2 ( (th): 2
                            トニギートニール
     volume = x r2.h = T(12)(1-T(2)) = r-T(3
        L(volume) = 1-3012 =0
       volume max = π. (3π). h = 3h = 3 (1-π/2)
```

4 
$$f(x) = \frac{1}{2} \ln \left( \frac{1+8mx}{1-8mx} \right)$$
  $g(x) = 2n \left| \frac{1}{2} \ln x \right|$   
 $f'(x) = \frac{1}{2} \left[ \frac{1+8mx}{1-8mx} - \frac{1}{1-8mx} \right]$   
 $f'(x) = \frac{1}{2} \left[ \frac{\cos x}{1-8mx} - \frac{\cos x}{1-8mx} \right]$   
 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} - \frac{\cos x}{1-8mx} \right]$   
 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
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 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
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 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1+8mx}{1-8mx} \right]$   
 $= \frac{1}{2} \left[ \frac{\cos x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
 $= \frac{1}{2} \left[ \frac{\sin x}{1-8mx} + \frac{1}{2} \cos x \left( \frac{1+8mx}{1-8mx} \right) \right]$   
 $= \frac{1}{2} \left[ \frac{\sin x}{1-8mx} + \frac{1}{2$