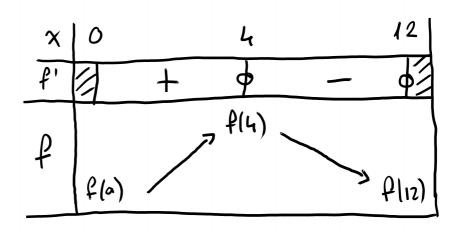
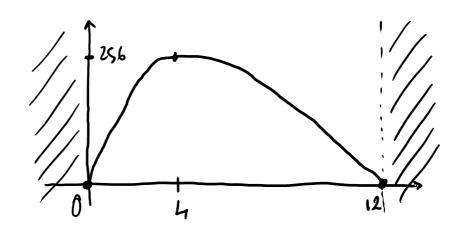
7) 
$$f(x) = x^3 - 24x^2 + 144x$$
  
 $f'(x) = 3x^2 - 48x + 144$ 

$$\Delta = (-48)^{2} - 4 \times 3 \times 144 = 576 > 0 + \frac{1}{4} - \frac{1}{12} + \frac{1}{4} = 4 \times 2 = \frac{48 - 24}{6} = 12$$



$$f(0) = 0$$
  $f(4) = 156$   $f(12) = 0$ 



256 est un maximum atteint en x=4.