## Home well 34

- ①  $f(u) = \overline{e}^{7u}$  einn  $f'(u) = -7\overline{e}^{7u}$  einn  $+\overline{e}^{7u}$  einn  $+\overline{e}^{7u}$
- ②  $f(u) = (8n-6)^3 \div (4n+5)^4$   $3(8n-6)^2(8)(4n+5)^4$   $4(4n+5)^3(4)(8n-6)^3 \div$  $(4n+5)^8 = f(n)$
- (3)  $10 = (t^2 + 7)^{80}$ ;  $\frac{dw}{dt} = ?$   $w'(t) = 80(t^2 + 7)^{79}(at)$ or  $160t(t^2 + 7)^{79}$
- (4)  $f(u) = (\partial u^2 + 4 \cdot 9)^{4} \cdot \frac{dy}{\partial u}$   $f(u) = f_4(\partial u^2 + 4 \cdot 9)^{4} \cdot (4u)$  $\frac{dy}{\partial u} = \frac{u}{(\partial u^2 + 4 \cdot 9)^{4}}$
- (5) f(u)= cos4w+ cos(w4) f(u)= 4cos3w(-einn)- 4w2ein(w4)
- 6)  $f(u) = 8^{n^2 + 4n}$   $f(u) = lu(8) \cdot 8^{n^2 + 4n}$  $f'(1) = 8^5 lu(8)(6)$

- (8) f(n)=cos Cein(un))

  f(n)= 5cos (Lein(n) (-lin(ein(n)))

  (cos (4n)(u))

  f(n)=-20 cos (lein(n) (lein(ein(n)))

  cos (4n)
- T look at grien data and answer based on the cleain rule.
- - 3 Same as 1
  - 4) Period is determined by the formula  $\frac{\partial T}{dt} = \sqrt{kT}$ where  $T = \partial T \sqrt{\frac{M}{n}}$