

- ① write down eqn of  $x$ -axis and  $y$ -axis in two
- ② let  $y = 2x^2 - 4x + 5$ , if  $x$  change from 2 to 2.2, find approximate value of  $y$  using differential  $dy$ .
- ③ if  $f(x, y, z) = \frac{x^2 y}{z} + x + y$  then find value of  $f(1, 2, 3)$
- ④ find limit  $(x, y) \rightarrow (0, 0)$ .  
 $f(x, y) = xy$
- ⑤ equation normal line (in symmetric form) to the surface  $f(x, y, z) = x^2 + y^2 - z^2$  at the point  $(1, 1, 0)$ .  
 Point  $(2, 1, \sqrt{6})$  and perpendicular to the vector  $n = 3i + 6j + 2\sqrt{6}k$ .