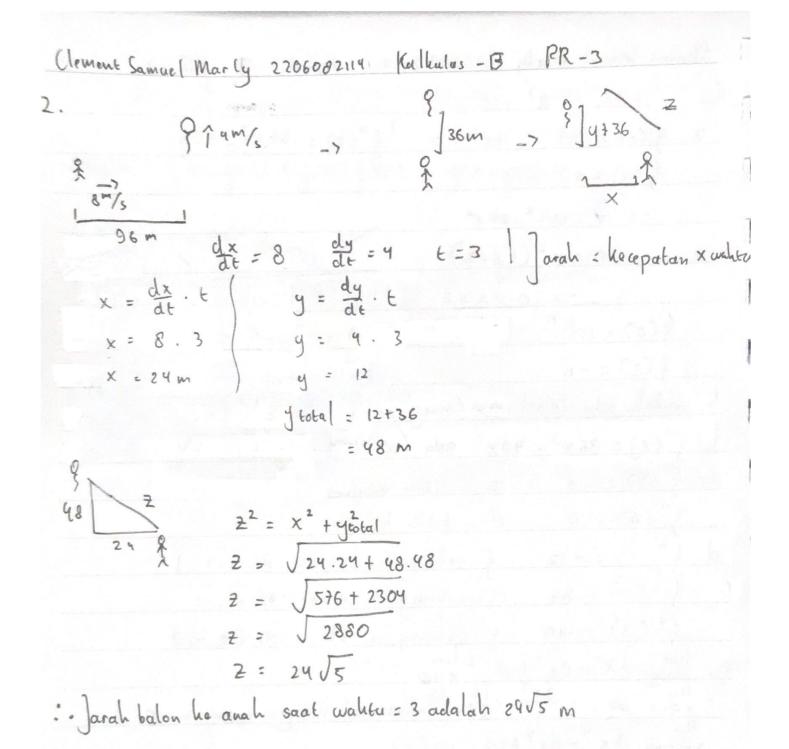
```
Coment Samuel Marly 220608 2114 Kallulus -B PR-3
1. f(x) = 3x4 - 8x3 +10
 a. f'(x) = 12x3-24x2 | f'(x) = 36x2-48x
 f(x)=0
  0 = 12 x3 - 24 x2
0 = 12 \times^{2} (x-2)
   Y=0 V X = 2
             fungci nail = [2,00]
                            fungsi turun = [-00,0] 1 [0,2]
6. tidah ada lohal maximum/minimum
c. tidah ada global max, hanya ada min global di x = 2
d. f"(2) = 98 , 2 = tieil minimum
f"(0) = 0, 0 = titil below
f"(1) = -12, f cehung he bawah di E-00,0]
f"(-1) = 84, f cehung he atas di E0,2]
  f" (3) = 180 , f celiung he atas di [2,∞]
e. 11m 3x4-8x3+10 = 00 (3)
      = 00 membesar mendehali tah hingga untuh x -> 00
  lim
x->-∞ 3x 4-8x3+10 = ∞(3)
      = 00 membesar mendehali tah hingga cutuh x -7 -00
```



Clement Samuel Marly 2206082114 Kelas -B PR-3

$$\frac{dz}{dt} = 3660 \text{ miljam} \qquad \frac{dx}{dt} = 0.$$

$$\frac{dx}{dt} = 0$$
.

$$x^2 + y^2 = z^2$$

$$y^2 = z^2 - x^2$$

 $y = \sqrt{25 - 16}$

$$y = 3$$

$$x^2 + y^2 = z^2$$

$$4.0 + 3.\frac{dy}{dt} = 5.3600$$

$$\frac{dy}{dt} = 5.1200$$

-. Kecepatan vertilal robet adalah 6000 mil/jam

```
Clement Sanuel Marly 2206082114 Kalkulus - B PR-3
      rusuh = 8 rusuh atas (rusuh persegi) = x
        = 4 rusuh samping (rusuh persegi) = y
      volume = x.x.y
13500 = x2y -> y = 13500
rasah minimum = f'(x) = 2xy + x^2
Luas baloh : L(x)
      L(x) = 4(xy)+(x.x)
           = 4 (x. 13500) + x2
              = 34000 + x2
         L'(x) = 0 untak minimum
           0 = -54000 . x -2 +2x
          2 x = 54000 x-2
          x3 = 27000
           x = 30, 1 rasul persegi = 30 cm,
            y = 13500 = 15, 1 rasul samping/bediri = 15 cm
```

Clement Samuel Marly 2206082119 Kelas - B PR-3

5. Pct) = 10. 4 t.4, t = 1 jam

a. 6 = 3

.Pco> = 10. 4 .4 = 10

P(3) = 10. 4 .4

= 10. 4 .4

= 167.772.160

b. P(3) = 9 digit

lo digit = P(3). 4²

2.684.354.560 = 10.4¹².4²

= 10.4¹⁴

= 10.4^{3,5.4}

t = 3,5 jam

= 3,5 x60 menit

= 210 menit