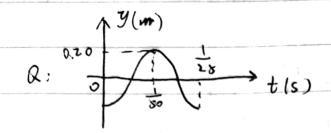
```
团超十九 波动(-)
1 B 2.D 3. y=Aws[w(t+ 1+x)+0]
 4. 4=02 cos (0.5 + = y= 0.2 cos ( = + = = =)
  5. (1) 4= A cos ( t+ T)
              (2) y(0,t) = A cos (1 t - 2nd +n)
                                 y(x,t)= A cos ( 5t +2 1 (x-d) + 11)
                (3) 两項 d= = = 人代入(1) + y(0,t)得
                                   0.5. 振动3程: y= A ws = t.
   6.(1) 设 y= A cos (w++10)(SI), w= 1 = 1 y(x)= A= 1x/02
                                   y(0) = 5 ωs φ = 5 , φ = 7
                                     = y= \(\int \times \times \tag{\pi} 
         (2) y(x,t) = \sqrt{2} \cos (\frac{\pi}{2}t - \frac{\pi}{2}x + \frac{\pi}{3}) \times 10^{-3}
          (3)
     3超数 = + 波动(=)
                                                           3.4
 4 5 1 W
   5. P: = y = 0.2 cos (100 nt- =), Q: y = 0.2 cos (100 nt+ n)
                 V. y (0,6) = 0.2 LOS (10016)
```



6.(1) 
$$y = 3 \omega s (4\pi t + \frac{\pi}{5} \% - \pi)$$
  
D:  $y = 3 \omega s (4\pi t - \frac{9}{5}\pi - \pi) = .3 \omega s (4\pi t - \frac{14}{5}\pi)$   
(2)  $0 \pm ... + \frac{3}{5}\omega s (4\pi t + \frac{14}{5}\pi)$ 

$$y=3 \omega s \left[4\pi t - \frac{\pi}{5}(x-1) - \pi\right]$$
  
 $x=5+9=14m \quad y=3 \omega s \left(4\pi t - \frac{14}{5}\pi\right)$ 

7题 \_ - 渡动(3)

$$A\varphi = \frac{\pi}{2} - lon(-0.15) = 2\pi \qquad \therefore A = \sqrt{A_1^2 + A_1^2 + 2A_1A_1} = 6 \times lo^{-3} m$$

$$tan \varphi = \frac{A_1 \sin(-\frac{2\pi \cdot 0.45}{0.2}) + A_1 \sin(\frac{\pi}{2} - \frac{2\pi \cdot 0.3}{0.2})}{A_1 \cos(\frac{\pi}{2} - \frac{2\pi \cdot 0.45}{0.2}) + A_2 \cos(\frac{\pi}{2} - \frac{23 \cdot 21}{0.2})} = -\frac{1}{2}$$

月起ニニー版版(四)

1. A 2. C. 3. Ea 4. x=(2k+1) 4. x=0, 1, 2…

5. (1)  $y_1 = 0.03$  (2)  $\left[2\pi\left(\frac{t}{0.05} + \frac{\pi}{4}\right)\right]$ 

(2) 强汉: y=y,+y=0.1·cos4ont(cos=x)

波节: 105至×1=0, ×=±2k+1, k=0,1,2...

距原总最近: /m, -/m, 3m, -3m