

## CINEMÁTICA

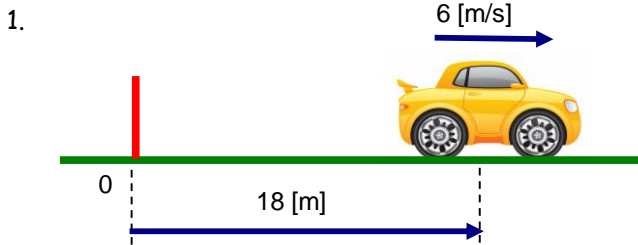
### Movimiento Rectilíneo Uniforme

#### Problemas del tipo "A"

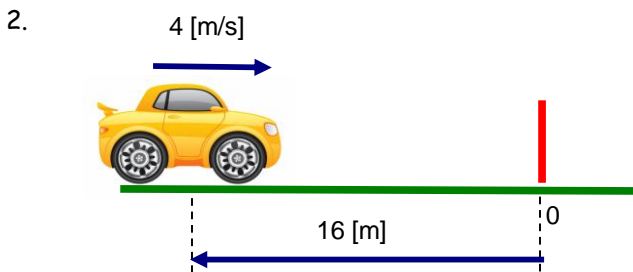
A partir del dibujo, que representa un M.R.U.

a) Determinar la ecuación :  $x - t$ .

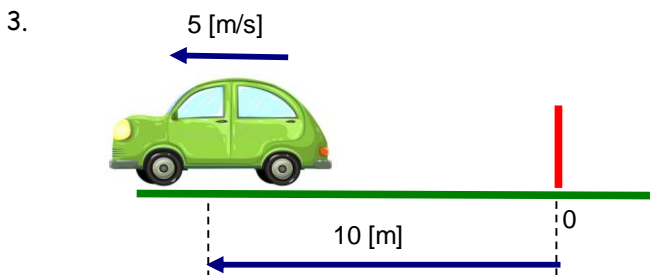
b) Dibujar la gráfica :  $x - t$



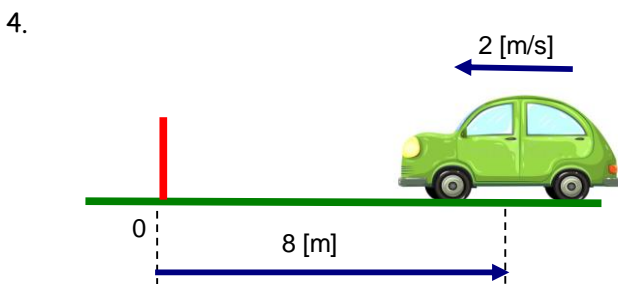
- A)  $x=18+6t$  B)  $x=-18+6t$  C)  $x=18-6t$  D)  $x=-18-6t$



- A)  $x=16+4t$  B)  $x=-16+4t$  C)  $x=16-4t$  D)  $x=-16-4t$



- A)  $x=10+5t$  B)  $x=-10+5t$  C)  $x=10-5t$  D)  $x=-10-5t$



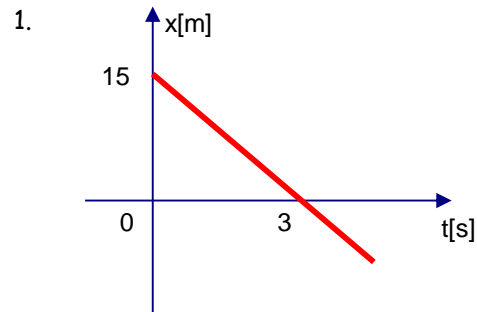
- A)  $x=8+2t$  B)  $x=-8+2t$  C)  $x=8-2t$  D)  $x=-8-2t$

#### Problemas del tipo "B"

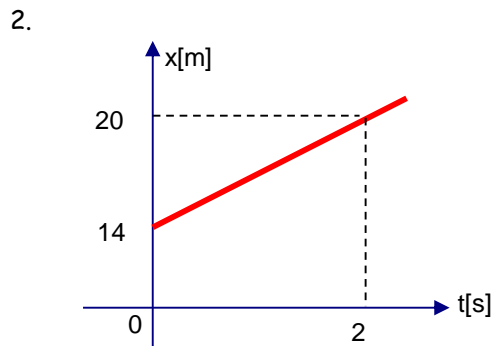
A partir del gráfico, que representa un M.R.U.

a) Determinar la velocidad y la posición inicial.

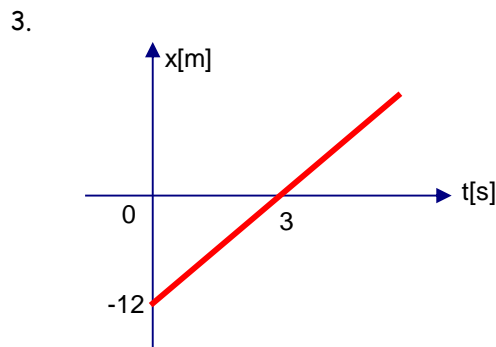
b) Hallar la ecuación :  $x - t$ .



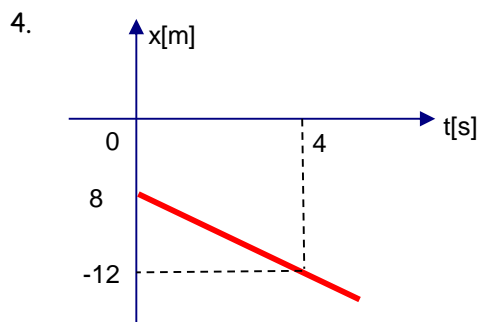
- A)  $x = 15 - 5t$   
 B)  $x = -15 + 5t$   
 C)  $x = -15 - 5t$   
 D)  $x = 15 + 5t$



- A)  $x = 14 - 3t$   
 B)  $x = -14 + 3t$   
 C)  $x = -14 - 3t$   
 D)  $x = 14 + 3t$



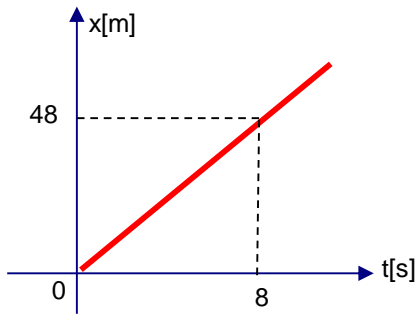
- A)  $x = 12 - 4t$   
 B)  $x = -12 + 4t$   
 C)  $x = -12 - 4t$   
 D)  $x = 12 + 4t$



- A)  $x = 8 - t$   
 B)  $x = -8 + t$   
 C)  $x = -8 - t$   
 D)  $x = 8 + t$

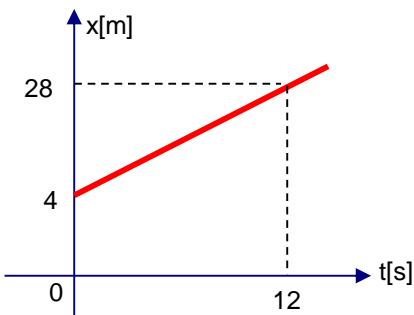
Problemas del tipo "C".

1. Determinar la velocidad del móvil para  $t=3[s]$ .



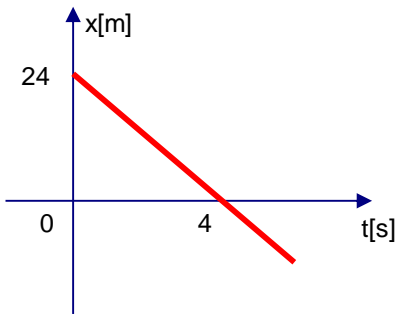
- A) 3 [m/s]
- B) 4 [m/s]
- C) 5 [m/s]
- D) 6 [m/s]
- E) 8 [m/s]

2. Determinar la velocidad para  $t= 4[s]$ .



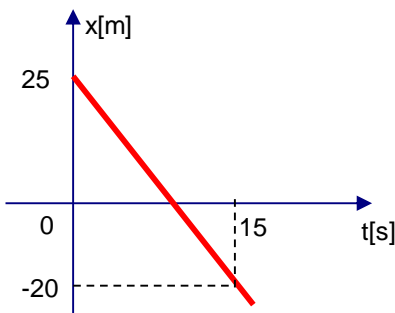
- A) 10 [m/s]
- B) 8 [m/s]
- C) 4 [m/s]
- D) 6 [m/s]
- E) 2 [m/s]

3. Determinar la velocidad del móvil en  $t=5[s]$ .



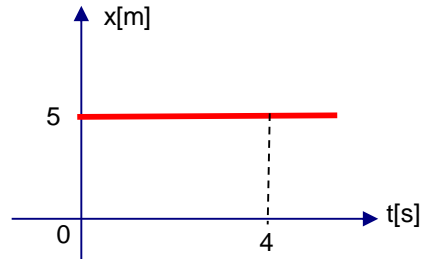
- A) +4 [m/s]
- B) -4 [m/s]
- C) +8 [m/s]
- D) -8 [m/s]
- E) -2 [m/s]

4. Determinar la velocidad del móvil en  $t=10[s]$ .



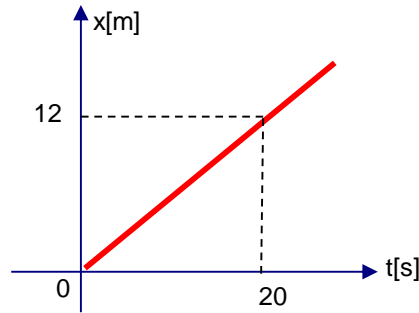
- A) 2 [m/s]
- B) -6 [m/s]
- C) +4 [m/s]
- D) -2 [m/s]
- E) -3 [m/s]

5. Determinar la velocidad del móvil para  $t=10[s]$ .



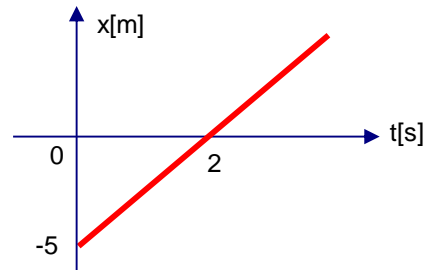
- A) 1 [m/s]
- B) 2 [m/s]
- C) 3 [m/s]
- D) 4 [m/s]
- E) 5 [m/s]

6. Determinar la posición del móvil para  $t=5[s]$ .



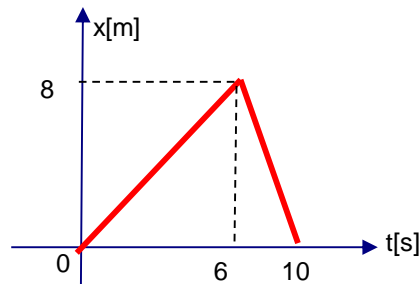
- A) 3 [m]
- B) 6 [m]
- C) 8 [m]
- D) 4 [m]
- E) 7 [m]

7. Determinar la posición del móvil para  $t=6[s]$ .



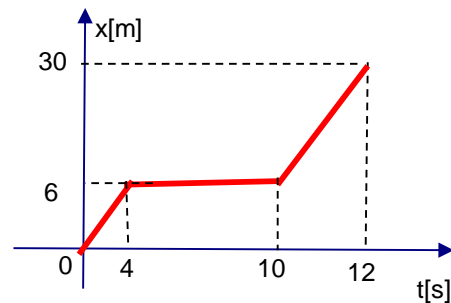
- A) 5 [m]
- B) 10 [m]
- C) 15 [m]
- D) 20 [m]
- E) 7 [m]

8. Determinar la velocidad del móvil en  $t=8[s]$ .



- A) +4 [m/s]
- B) -4 [m/s]
- C) -6 [m/s]
- D) 2 [m/s]
- E) -2 [m/s]

9. Determinar la velocidad del móvil en  $t=8[s]$ .



- A) +4 [m/s]
- B) 0 [m/s]
- C) 6 [m/s]
- D) 2 [m/s]
- E) -2 [m/s]

