Rischauch Examen Ingriso 1-2018 200 opcien UMIS-FOYT Fila 2

ARTTHÉTICA-ÁLGEBRA

(2) In (1) = 3x2x-2=3x => -2=x => En (1) = 4=-3 D 7+7=-2-3=-5//

 $\sqrt{\frac{20^{\circ}.20}{4^{\circ}.4^{2}+4^{(n+1)}}} = \sqrt{\frac{4^{\circ}.5^{\circ}.20}{4^{\circ}.46+4^{\circ}.4}} = \sqrt{\frac{4^{\circ}.5^{\circ}.20}{4^{\circ}.46+4^{\circ}.4}}} = \sqrt{\frac{4^{\circ}.5^$ 

 $4x^{2} + (-2m-5)x + (m-1) = 0$   $y = \frac{x_{2} + x_{1}}{x_{1}x_{2}} = \frac{3}{5}$  1 A3  $\Rightarrow a=4; b=-2m-5; c=m-1$   $y x_1+y_2=-\frac{b}{a}=\frac{2m+5}{4}$  $\chi_1 \chi_2 = \frac{c}{n} = \frac{m-1}{n}$ Riemplazando Den 1 temmos :  $\frac{2M+5}{m-1} = \frac{3}{5} \implies 10M + 25 = 3M-3$ 

7m = 28

14. a, b, c en P. G. => b = ax 1/3 c = ax2 60 070 y 870

satisfacen: loga, log(ax), log(ax²) => loga, logb, logc

=> loga, loga + logs, loga + 2 logs estan en P. A y 9 = 108 x// M+ 20 n 45

6.7 
$$\cos^4 x + \cos^2 x = \cos^2 x$$
  
 $2 \cos^4 (\frac{4x + 2x}{2}) \cos^4 (\frac{4x - 2x}{2}) = \cos^2 x$   
 $2 \cos^2 3x \cos^2 x - \cos^2 x = 0$   
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 $2 \cos^2 x \cos$ 

6.8.

$$Q = \frac{\Delta V}{\Delta t} = \frac{9}{4} = 2 \left[ \frac{m}{s} \right] - \lambda x_1 = \frac{1}{2} (2) (4) = 16 [m]$$

$$y N - Mg = 0 \rightarrow N = Mg$$

$$x - McN = Ma$$

$$4 a = -Mcg$$

$$V^{2} = V_{0}^{2} + 2 \Omega \Delta X$$

$$0 = 5^{2} + 2 \left( -\mu_{1} g \right) \Delta X$$

$$\downarrow_{0} \Delta X = \frac{25}{2(0,1)(10)} = \frac{12,5 [m]}{2}$$

# 11

Afe

Ag

$$\hat{y} = N - Mg = 0$$
 $N = MT^{2}$ 
 $N = 1 + 10t - 3t^{2}$ 
 $N = 1 + 10(1) - \frac{10}{2}(1) = 6[n]$ 

$$y = 1 + 10t - \frac{3}{2}t^{2}$$
 $1 = 10 - gt$ 
 $t = 10 - gt$ 
 $t = 0$ 
 $t = 0$ 
 $t = 0$ 

$$y_{p} = 1 + 10(1) - 12(1) = 6[m]$$

$$D = 5 + 6 = 11[m]$$

## Reservation 11°2

Q13. d'Euanter gramer de etane (C2H6) contendrán 18,066 × 10<sup>23</sup> molécular de C2 H6 (Maza molar = 30 g/mol).

Datos:

DIL Considere la signiente reacción:

Temiecuacunes".

$$8H^{+} + 11nO_{4} + 56 + 1120 \times 2$$

$$5^{-2} + 5^{\circ} + 5$$

$$16H^{+} + 211nO_{4}^{-1} + 55^{-2} \rightarrow 211n^{+2} + 8H_{2}O + 55^{\circ}$$

\	\ (		R	1-1
Rpta: 6	C)6/	X:	2	2 /
Y		Mn:	2	2 r
		Q:	6	6
		S':	ō	5
		H:	16	16 V
		0'	8	18 ~

Q15. 120 g de un gar ocupan 2006 a - 73°C y 124,8 tovo. ci Cuál er la mara molecular del gas? (R=62,4 tovo L/mol K)

Dates:

$$M = 120g$$
 $V = 200L$ 
 $T = -73 + 273$ 
 $V = 124.8 \text{ tors} \times 200K$ 
 $V = 124.8 \text{ tors} \times 200K$ 
 $V = 124.8 \text{ tors} \times$ 

@ 16.0 Que molaridad liene una relución al 4,0% de Ma OH? La den ridad de la relución es de 1,028 g/mL

Datus:

Solución al 41,0% MaOH

$$S = 1,028 \text{ g/mL}$$

1,028 g de solución

 $M,0g$  de MaOH

 $M,$ 

1002