$$d = 5 \qquad d \times 5 = 5 \times 5 = 25$$
i) $Q_6 = 28$

$$Q_6 = 3 + (10 - 1) - 5$$

$$Q_5 = 28 - 5 = 23$$

$$Q_{10} = 3 + 9 - 5$$

$$Q_{1} \qquad 18 \qquad = 3 \cdot 45$$

$$Q_{2} \qquad 13 \qquad = 48$$

$$Q_{1} \qquad 8$$

$$Q_{1} \qquad 3$$

 a_i

2)
$$d = 6$$
 $feniendo:$

$$Q_{1} = -1$$

$$Q_{2} = AA$$

$$Q_{3} = AA$$

$$Q_{4} = 35$$

$$Q_{5} = AA$$

$$Q_{5} = AA$$

$$Q_{6} = AA$$

$$Q_{7} = AA$$

$$Q_{8} = AA$$

$$Q_{1} = AA$$

$$Q_{1} = AA$$

```
1)
   a) d = an-an-1, -> 3-5 =-2
        O1 == 01+(n-1) +-2:
         07= 5+(7-1) *-2= termino general = 07=5+(7-1) --2
         O1 7 - 5 - 12
                                                                          S_n = \frac{n}{2} (2a_1 + (n-1)*d)
         O1 = - 7
   5)^{-12}, -7, -2, 3, 8 = S_n = \frac{n(a_1 + a_n)}{2} \rightarrow nos \cdot 2 = n(-12 + a_n)
                                                 210 = n (-12+-17+5n)
              an = a, +(n-1) · d
                                                  210 = -12n-17n +5n2
                   -12 + (n -1) · 5 .
                                                   210 = -29n +5n2
               Q n = -12 + 5n -5
                                                       0= 5n2-29n -210
   c) Sn = 3250 ·
                          an = a, + (n-1) * d
                                                        n=10, dedido a que la otra solución es (-)
        91 = 50 ·
                               20+(1)*d
        ol = 15 .
                               20 x15 (n-1)
      S_n = \frac{n(a_1 + a_n)}{2}
        3250* 2 = n (40 + 15n-15) =
           6500 = 15n2 + 40n - 15n
           6500 = 15n2 + 25n
                0 = 15n7 + 25n - 6500
                X2 = -65/2 - Nosirue esta wea
                                                                                    Sistema de ecuacions
    d )
           Q1 = 440 , O1 = 200
           as= 1160, d= 40
                                                                                    an = ao + (n-1)d
```

$$Q_{15} = 1160, d = 40$$

$$Q_{15} = 0 + (n-1) \cdot d$$

$$Q_{25} = 0 + (n-1) \cdot d$$

$$Q_{15} = 0 + (n-1) \cdot$$

Sea lant la P.A de los sullos menjuelos en el n-ésimo año. Si ao y d son rep... Lermino inicial y difermin comun, se time.

2) a)
$$Q_n = \frac{2}{4}, -\frac{1}{9}, \frac{1}{2}$$

$$r = \frac{Q_n}{Q_{n-1}} = \frac{-5}{2}$$

$$S_{n} = Q_{1} \frac{(1-r^{n})}{1-r}$$

$$S_{8} = \frac{2}{9} \cdot \frac{(1-\frac{5}{2})}{1-\frac{3}{2}} = \frac{6817}{2880}$$

$$\frac{512}{729} = \frac{29}{36}$$

Wando la lazon 15 mayoraun

lumou is nenor que 1, es decreciale

es creciente

$$O_1 + O_2 + O_3 = 21$$
 $O_1 + O_2 + O_3 = 21$
 $O_2 + O_3 = 21$
 $O_3 + O_4 + O_5$
 $O_4 + O_6 + O_6$
 $O_4 + O_6 + O_6$
 $O_4 + O_6$
 $O_6 + O_7$
 $O_7 + O_7$
 $O_8 + O_8$
 $O_8 + O$

$$a + (a \cdot r) = 21 \cdot 0 \cdot r^{2}$$

$$a + (a \cdot r) + 3 = 12$$

$$a + (a \cdot r) = 21 - 12$$

$$a + (a \cdot r) = 9$$

$$a \cdot r^{2} = 12 \quad -6 \quad 3 \quad 4e \cdot ni \cdot no$$

$$a + (a \cdot r) = 9$$

Pregunta 3

$$z) \qquad \left(\frac{\chi}{\gamma} - \frac{\chi^2}{2\gamma^2}\right)^8$$

Sea el soe sicion le $\frac{11}{2} = \frac{8}{2} = 4$

$$\begin{pmatrix} 8 \\ 4 \end{pmatrix} \quad \frac{\chi}{\gamma}^{\theta-4} \cdot \frac{\chi^2}{2\gamma^2} \\ \frac{\chi^4}{\gamma} \cdot \left(\frac{\chi^2}{2\gamma^2}\right)^4$$

$$\begin{pmatrix} 8 \\ 4 \end{pmatrix} \frac{x^{4}}{y^{4}} \cdot \frac{x^{8}}{^{16}y^{2}} \qquad \frac{x^{12}}{^{16}y^{1}} \qquad x^{12} : 16y^{11}$$

$$\frac{x^{2} \cdot x^{2}}{y^{2} \cdot y^{2}} \cdot \frac{x^{8}}{^{16}y^{2}}$$

$$\frac{x}{y^{8}} \cdot \left(1 - \frac{x}{x}\right)$$

$$\frac{x}{y^{8}} \cdot \left(1 - \frac{x}{x}\right)$$

Si los huce aumentor en 8 junas existira en el descrivollo ez

$$-\frac{\sqrt{2}}{2}$$

$$\cos x = \sqrt{3} \rightarrow -\frac{1}{2}$$

$$\sin y = 1$$

$$-\frac{\sqrt{3}}{2}$$

$$\frac{\pi}{3}$$

MI Husta lus 5

Pregonta 4:

Sen los to loto Sec loser Co ca lo ca hip hip hip hip la co la co

$$a = \cos(s\pi) = \frac{\sqrt{4}}{2} = -1$$

e) sen
$$\left(\frac{-3\pi}{2}\right)$$
 $\frac{2}{2}$ $\frac{2\pi}{2}$ $+\frac{\pi}{2}$ $+\frac{\pi}{2}$ $+\frac{\pi}{2}$ $+\frac{\pi}{2}$ $+\frac{\pi}{2}$

b) Sen(
$$-\frac{7}{6}$$
) = $\frac{6\pi}{6} + \frac{\pi}{6} = \pi + \frac{\pi}{6} = 0 + \frac{1}{2} = \frac{1}{2}$

$$\begin{cases} \int dx \begin{pmatrix} 23\pi \\ 4 \end{pmatrix} = \frac{20\pi}{4} + \frac{3\pi}{4} - 5\pi + \frac{3\pi}{4} \end{cases}$$

c) col
$$\left(\frac{13\pi}{6}\right)$$
 $\frac{12\pi}{6}$ + $\frac{7}{6}$ = 2π + $\frac{7}{6}$ = $\sqrt{3}$

a) Sec
$$\left(-\frac{1}{2}b^{\circ}\right) = \frac{\pi}{2} + \frac{\pi}{6} = \frac{3\pi i\pi}{6} = \frac{4\pi}{6}$$

q)
$$\frac{1}{4an\left(\frac{3}{4a}\right)} = \frac{5}{8a} + \frac{5}{4}$$
 $\frac{5}{4a} + \frac{5}{4a}$
 $\frac{5}{4a} + \frac{5}{4a}$

ધળજ

