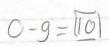
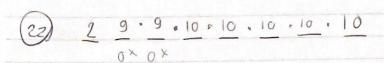
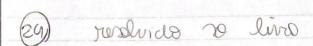
- Dista Matematica Discreta EXERCICIOS PARES SECAO I introducão 2) 5.6= 30 Jamas (blush +raia) (4) 80.90 = 7.200 (carais difurentes) (6) 12.11 = 132 maneiras (primus) (8) 7.2.3 = 42 alternations de comos (i) 220 Johns ela padra reponder iz) 232 palaras ditantas (4) _0 mohle 7 2 26 = 64 - 1 0 Caso Irohan 1 -0 n exalhe 7 2 26 = 64 - 1 63 (16) 26.26.26.26.26.26 = 308.915716 , m.

(8) 5.5.5 = 125(a) $C \cdot P = 24$ (b) $C \cdot P = 24$ (c) $C \cdot P = 24$ (d) $C \cdot P = 24$ (e) $C \cdot P = 24$ (f) $C \cdot P = 24$ (g) $C \cdot P$

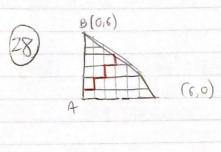




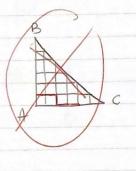
8.100,000 numeros defeuntes pedemos tes.

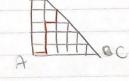


26) resolvices no lino









DÚVIDA

06

(32)
$$n$$
 $n-1$ a mum $combinados$

$$\frac{n*(n-1)}{2} + n = \frac{n*(n+1)}{2}$$

$$(34)$$
 $(52.51.50.49.48 = 311.875.200$

(A)
$$-52^5 = 380204032$$

SEÇÃO 2

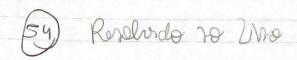
42) Calculon:

 $Am,r = \frac{m!}{(m-r)!}$

- $A_{6,3} = 6.5.4 = 120$
- (b) A10,4 = 10.9.87 = 5040
- (A 20,1 = 20
- (b) $A_{12,2} = 12.11 = 132$
- (44) 4 pericones pl cada 1
 24 pericons 6

node forskildades 6! = 720node formas = 720 = 30 possibildades

- (46) Resolute no livro
- (48) A16,2 = 16.15 = 240
- 50) A=3 = 5.4 = 20



(56)
$$A_{5,3} \cdot A_{3,2}$$

$$\frac{5!}{2!} \cdot \frac{3!}{1!} = \frac{5 \cdot 4 \cdot 2!}{2!} \cdot \frac{3 \cdot 2 \cdot 1}{1!} = 20 \cdot 6 = \boxed{120}$$

(58) resorida no livro

$$(64) - 6 \cdot - 8$$

 $C_{4,2} = \frac{4!}{2!2!} - 0 + \frac{4.3.7!}{2!2!} = \frac{4.3}{2} - \frac{12}{6}$ Espagos ragos; $A_{4,2} = 4.3 = 12$

6.12= 72 anomjos

- $\frac{(3)}{5.4.3} = \frac{3}{1} \frac{180}{1}$
- (34) (3.1) = (60)

tiran dúvida de 105-113

SECÃO III

$$(24)$$
, (3) (6) = $\frac{6!}{2!4!}$ = $\frac{36.5.4!}{2.4!}$ = $\frac{157}{2.4!}$

$$O\left(\frac{8}{0}\right) = \frac{8!}{0!8!} \quad \frac{1}{1} = \boxed{1}$$

$$(76) \binom{n}{4} = \frac{n!}{4! \cdot (n-4)!}$$

$$\frac{C_{8,P+2}}{C_{8,P+2}} = 2 \iff C_{8,P+2} = 2 \cdot C_{8,P+1}$$

$$(8,p+2=\frac{8!}{(p+2)!},(8-p+2)!=\frac{8!}{(p+2)!*(6-p)!}$$

$$(8, P+1) = 8!$$

$$(P+1)! \cdot (8-P+1)! = 8!$$

$$(P+1)! \cdot (7-P)!$$

$$\frac{(P+1)! \cdot (7-P)!}{((P+2)! (6-P)!)} = 2 \implies \frac{(P+1)!}{(P+2)!} \cdot \frac{(7-P)!}{(6-P)!} = 2$$

$$\frac{(7-P)}{(P+2)} = 2$$
 $4 = \frac{1}{(P+2)} \cdot (7-P) = 2$

$$2P+P=2P+4$$
 $2P+P=3P=3$
 $P=1$

$$C_{m,3} = 84$$
 $84 = \frac{m!}{3! (m-3)!}$

$$84 = m.(m-1).(m-2).(m-3)!$$

$$504 = (m^2 - m).(m-2)$$

$$m^3 - 3m^2 + 2m - 504 = 0$$

$$-0$$
 $90 = n(n-1)$
 $90 = n^2 - n$

$$45 = n \frac{1}{2!(n-2)!}$$

(142) Cn, 2 = 45

$$45 = n. (n-1) \frac{(n-2)!}{2! (n-2)!}$$

$$n^2-n-90=0$$
 (per bhaskana)

$$\int G m_1 = 10$$

$$[200] P_6^{2,9} = 6! = \frac{3}{6.5.4!} = 15$$

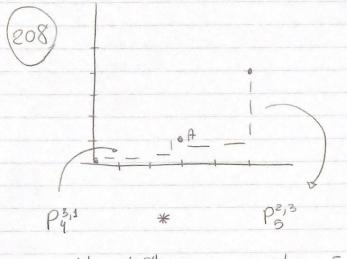
$$2! 4! = 8! 4!$$

(204)
$$\frac{1}{4}$$

$$\begin{cases} 3-1 \\ 4-1 \\ 5-1 \\ 9-4 \end{cases} = \frac{1}{4!} = \frac{1.6.5.4!}{4!}$$

$$= \frac{210}{9-4}$$
numuros

(206) jurdicide re livre!



$$\frac{4! - 4.3!}{3! - 3!} = \frac{5!}{2!3!} = \frac{5.4.3!}{2!3!} = 10$$

$$\begin{array}{c}
\left(210\right) \\
= P_{A+B}^{A,B} = (A+B)! \\
\hline
A!.B!
\end{array}$$

A= Menunos B= Mununan