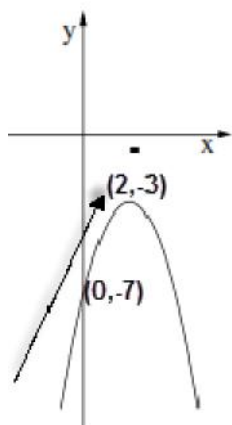


•  $x =$



∴  $y =$

$$x_{\text{kodkod}} = -\frac{b}{2a} :$$

•  $2 =$

$$y = -x^2 + 4x - 7$$

,  $x = 0$

$$\cdot \boxed{(0, -7)} : , y = -0^2 + 4 \cdot 0 - 7 = -7$$

$y = 0$

$$0 = -x^2 + 4x - 7$$

$$x_{1,2} = \frac{-4 \pm \sqrt{4^2 - 4 \cdot (-1) \cdot (-7)}}{2 \cdot (-1)}$$

$$x_{1,2} = \frac{-4 \pm \sqrt{-12}}{-2}$$

,  $x =$

•  $(0, -7) :$

•  $(x = \quad) x$

$$\left. \begin{array}{l} x_{\text{kodkod}} = \frac{-4}{2 \cdot (-1)} = 2 \\ x_{\text{kodkod}} = -2^2 + 4 \cdot 2 - 7 = -3 \end{array} \right\} \boxed{(2, -3)}$$

•  $(2, -3)$

:

-  $x$

•  $x < 2 :$

10, 11, 12, ..., 99 :  
 1, 2, 3, ..., 99      99 - (1, 2, 3, ..., 9)      90

$$\begin{aligned} &: \underline{\hspace{2cm}} \\ 99 &= 10 + (n-1) \cdot 1 \\ 99 &= 10 + n - 1 \\ 99 &= 9 + n \end{aligned}$$

$$\boxed{90 = n}$$

90 :

10 ( ) 5 - (1)

95 ( ) 5 - (2)

$d = 5$  , ( ) 5 - (3)

$d = 5$   $a_n = 95$  ,  $a_1 = 10$  ,

$a_n = a_1 + (n-1)d :$

$$\begin{aligned} a_n &= a_1 + (n-1)d \\ 95 &= 10 + (n-1) \cdot 5 \\ 95 &= 10 + 5n - 5 \\ 95 &= 5 + 5n \end{aligned}$$

$$90 = 5n$$

$$\boxed{n = 18}$$

5 - 18 :

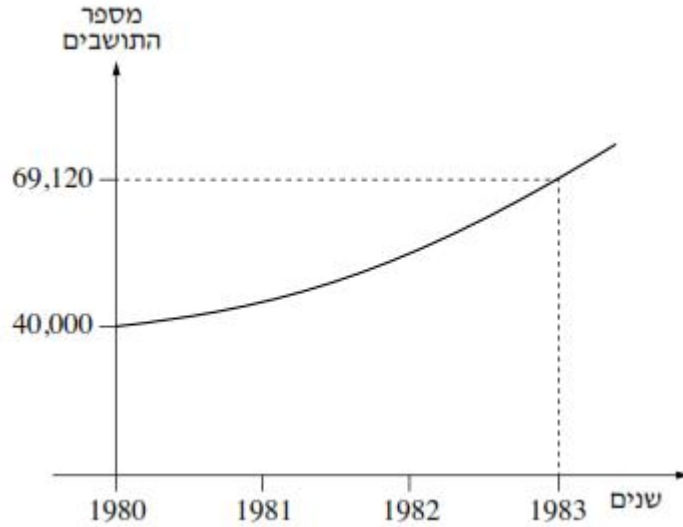
90

5 - 18

5 -            - 90 - 18 = 72

5 -            - 72 :

האוכלוסייה הציר גדלה באופן מצריכי.  
 הכרף שלפנינו מתאר את גידול האוכלוסייה  
 מתחילת שנת 1980 עד תחילת שנת 1983.



40,000 ,1980 , (1) .

69,120 ,1983 , (2)

69,120                      3                      40,000

$M_t$	$M_0$	$q$	$t$
69,120	40,000	?	3

$69,120 = 40,000 \cdot q^3 \quad / : 40,000$

$\frac{69,120}{40,000} = q^3$

$1.728 = q^3$

$q = \sqrt[3]{1.728}$

$q = 1.2$

$1.2 = \frac{100 + P}{100} \quad / \cdot 100$

$120 = 100 + P \quad / -100$

$P = 20\%$

. 20% -

:

,1980

4 , 1984

$M_t$	$M_0$	$q$	$t$
?	40,000	1.2	4

$$M_4 = 40,000 \cdot 1.2^4$$

$$\boxed{M_4 = 82,944}$$

.82,944 ,1984

.1980

2 , 1978

$M_t$	$M_0$	$q$	$t$
40,000	?	1.2	2

$$40,000 = M_0 \cdot 1.2^2 \quad / : 1.2^2$$

$$\frac{40,000}{1.2^2} = M_0$$

$$\boxed{M_0 \approx 27,778}$$

. 27,778 ,1978

.BD

ΔDNB

$$\cos 32^\circ = \frac{9}{BD}$$

$$BD \cos 32^\circ = 9$$

$$BD = \frac{9}{\cos 32^\circ}$$

$$BD = " 10.61$$

. " 10.61 BD :

$$\sphericalangle NDB = 180^\circ - 90^\circ - 32^\circ = 58^\circ \text{ (1)}$$

.  $\sphericalangle NDB = 58^\circ$  :

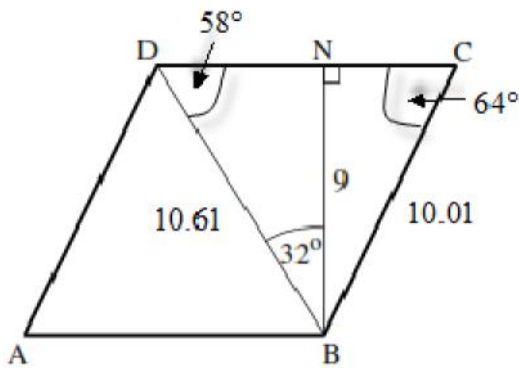
(CB = CD)

ΔCBD , (2)

$$\sphericalangle CBD = \sphericalangle NDB = 58^\circ$$

$$\sphericalangle C = 180^\circ - 58^\circ - 58^\circ = 64^\circ$$

.  $\sphericalangle C = 64^\circ$  ,  $\sphericalangle CBD = 58^\circ$  :



ΔCNB

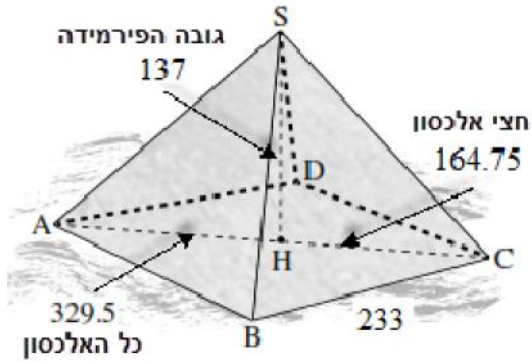
$$\sin 64^\circ = \frac{9}{CB}$$

$$CB \sin 64^\circ = 9$$

$$CB = \frac{9}{\sin 64^\circ}$$

$$CB = " 10.01$$

. " 10.01 :



329.5

AC

, x - ,

$\triangle ABC$

$$(AC)^2 = (AB)^2 + (BC)^2$$

$$329.5^2 = x^2 + x^2$$

$$329.5^2 = 2x^2 \quad /:2$$

$$54285 = x^2 \quad / \sqrt{\quad}$$

$$x = 233$$

233 , B

A

:

$$233 \cdot 4 = 932$$

932 , A

A

:

$\sphericalangle SCH$  ,

SC

329.5

SH

H ,

$$CH = \frac{AC}{2} = \frac{329.5}{2} = 164.75$$

$\triangle SCH$

$$\tan \sphericalangle SCH = \frac{SH}{CH}$$

$$\tan \sphericalangle SCH = \frac{137}{164.75}$$

$$\boxed{\sphericalangle SCH = 39.75^\circ}$$

39.75°

SC

:

:

90	80	70	60	
1	11	x	7	

$$N = f_1 + f_2 + \dots + f_n :$$

$$N = 7 + x + 11 + 1$$

$$N = 19 + x$$

.72.5

$$\bar{x} = \frac{x_1 f_1 + x_2 f_2 + \dots + x_n f_n}{N} :$$

$$72.5 = \frac{60 \cdot 7 + 70 \cdot x + 80 \cdot 11 + 90 \cdot 1}{19 + x} \quad / \cdot (19 + x)$$

$$72.5(19 + x) = 1390 + 70x$$

$$1377.5 + 72.5x = 1390 + 70x$$

$$2.5x = 12.5 \quad / : 2.5$$

$$x = \frac{12.5}{2.5}$$

$$\boxed{x = 5}$$

.x = 5 :

