

$$\begin{aligned}
 & \cdot \quad , \quad x^2 \quad , \quad a=1 \quad f(x) = x^2 - 6x \quad (1) \quad . \\
 & \cdot \quad , \quad a=-1 \quad g(x) = -x^2 + 5x + 6 \quad (2) \\
 & \cdot \quad g(0) > f(0) \quad g(0) = 6 \quad , \quad f(0) = 0 : \\
 & \cdot \quad g(x) = -x^2 + 5x + 6 - (2) \quad , \quad f(x) = x^2 - 6x - (1) :
 \end{aligned}$$

:

$$\begin{cases}
 y = x^2 - 6x \\
 y = -x^2 + 5x + 6
 \end{cases}$$

$$x^2 - 6x = -x^2 + 5x + 6$$

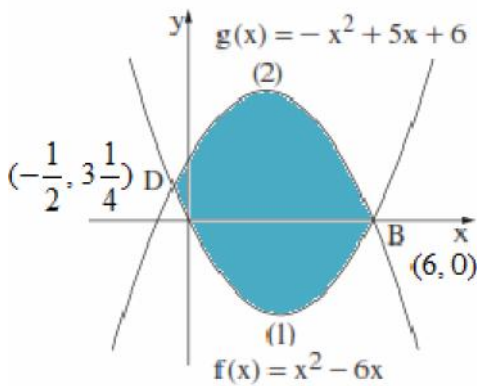
$$2x^2 - 11x - 6 = 0$$

$$x_{1,2} = \frac{-(-11) \pm \sqrt{(-11)^2 - 4 \cdot 2 \cdot (-6)}}{2 \cdot 2}$$

$$x_{1,2} = \frac{11 \pm 13}{4}$$

$$x_1 = \frac{11+13}{4} = \frac{24}{4} = 6 \rightarrow y = 6^2 - 6 \cdot 6 = 0 \rightarrow \boxed{B(6, 0)}$$

$$x_2 = \frac{11-13}{4} = \frac{-2}{4} = -\frac{1}{2} \rightarrow y = \left(-\frac{1}{2}\right)^2 - 6 \cdot \left(-\frac{1}{2}\right) = 3\frac{1}{4} \rightarrow \boxed{D\left(-\frac{1}{2}, 3\frac{1}{4}\right)}$$



$$\cdot \quad D\left(-\frac{1}{2}, 3\frac{1}{4}\right), \quad B(6, 0) :$$

$$\cdot \quad 6 - \left(-\frac{1}{2}\right) \quad -x \quad , \quad , \quad (1) \quad (2) \quad .$$

$$-\frac{1}{2} < x < 6 :$$

.

. " 6
 . $6 \cdot 3 =$ " 18

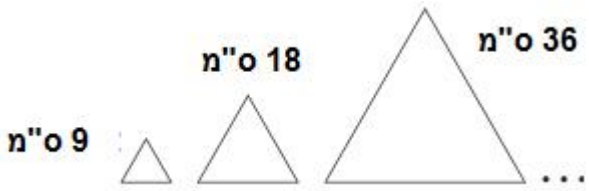
, " 3
 , " $3 \cdot 3 =$ " 9

. $18 \cdot 2 =$ " 36

, $\frac{18}{9} = 2$

. " 36

:



. $a_8,$

$q = 2, a_1 = 9.$

. $a_n = a_1 q^{n-1} :$

$a_8 = a_1 \cdot q^7$

$a_8 = 9 \cdot 2^7$

$a_8 = 1152$

. " 1,152

:

$a_1 = 9, q = 2, n = 8$

, $S_n = \frac{a_1(q^n - 1)}{q - 1}$

$S_8 = \frac{9 \cdot (2^8 - 1)}{2 - 1}$

$S_8 = \frac{2295}{1}$

$S_8 = 2,295$

. " 2,295

8

:

DF = AE .

 $\triangle ABE$

$$\sin \angle ABE = \frac{AE}{AB}$$

$$\sin 40^\circ = \frac{AE}{22}$$

$$22 \sin 40^\circ = AE$$

$$\boxed{AE = 14.14}$$

$$\therefore \text{ " } 14.14 \quad :$$

$$\therefore DF = \text{ " } 14.14$$

ADFE

 $\triangle DCF$

$$\sin 30^\circ = \frac{DF}{DC}$$

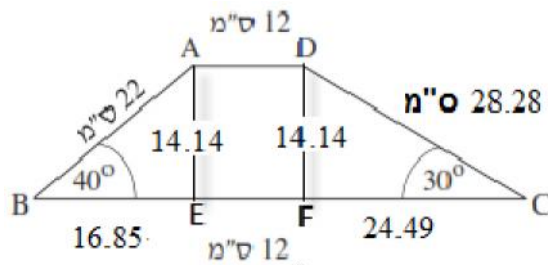
$$\sin 30^\circ = \frac{14.14}{DC}$$

$$DC \sin 30^\circ = 14.14$$

$$DC = \frac{14.14}{\sin 30^\circ}$$

$$\boxed{DC = 28.28}$$

$$\therefore \text{ " } 28.28 \quad DC \quad :$$

 $\triangle ABE$

$$(AE)^2 + (BE)^2 = (AB)^2$$

$$14.14^2 + (BE)^2 = 22^2$$

$$(BE)^2 = 284.06$$

$$\boxed{BE = 16.85}$$

 $\triangle DFC$

$$(DF)^2 + (CF)^2 = (DC)^2$$

$$14.14^2 + (CF)^2 = 28.28^2$$

$$(CF)^2 = 599.82$$

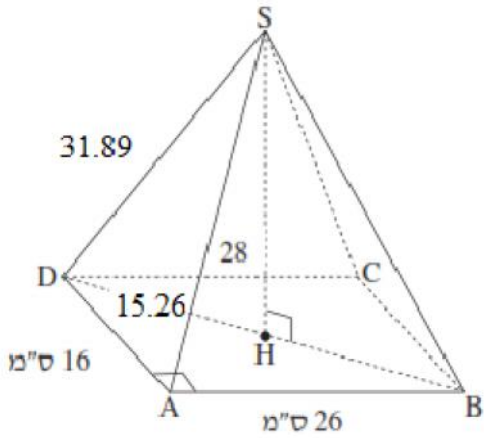
$$\boxed{CF = 24.49}$$

$$\therefore EF = \text{ " } 12$$

ADFE

$$16.85 + 12 + 24.49 \quad \text{ " } 53.34 \quad :$$

$$\therefore \text{ " } 53.34 \quad :$$



ΔABD

$$BD^2 = AB^2 + AD^2$$

$$BD^2 = 26^2 + 16^2$$

$$BD = \sqrt{932}$$

$$\boxed{BD = 30.53}$$

. " 30.53

$$. HD = 30.53 : 2 = " 15.26 ,$$

$$. \sphericalangle SHD = 90^\circ$$

ΔSHD

$$SD^2 = SH^2 + HD^2$$

$$SD^2 = 28^2 + 15.26^2$$

$$SD = \sqrt{1017}$$

$$\boxed{SD = 31.89}$$

. " 31.89

, $\sphericalangle SDH$ -

. HD , ,

ΔSHD

$$\sin \sphericalangle SDH = \frac{SH}{SD}$$

$$\sin \sphericalangle SDH = \frac{28}{31.89}$$

$$\boxed{\sphericalangle SDH = 61.40}$$

. 61.40

$$.100\% - 40\% - 20\% - 5\% = 35\% : O$$

O	AB	B	A	
35%	5%	20%	40%	

$$.O \quad 35\% - :$$

$$. O \quad B \quad B$$

$$,O \quad B \quad 20\% + 35\% = 55\% -$$

$$.55\% = \frac{55}{100} = 0.55 \quad ,B$$

$$. 0.55 \quad :$$

$$. AB \quad B \quad B$$

$$,AB \quad B \quad 20\% + 5\% = 25\% -$$

$$.25\% = \frac{25}{100} = 0.25$$

$$. 0.25 \quad :$$

$$. O \quad O$$

$$,O \quad ,O \quad 35\% -$$

$$.35\% = \frac{35}{100} = 0.35$$

$$. 0.35 \quad :$$

$$. \quad , \quad O$$

$$, \quad ,$$

$$. 100\% = \frac{100}{100} = 1 \quad ,$$

$$. 1 \quad :$$

..

90	72	x_i
1	5	f_i

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

$$\bar{x} = \frac{72 \cdot 5 + 90 \cdot 1}{6}$$

$$\bar{x} = \frac{450}{6}$$

$$\boxed{\bar{x} = 75}$$

. 75

. 78 -

x	90	72	x_i
1	1	5	f_i

$$78 = \frac{72 \cdot 5 + 90 \cdot 1 + x \cdot 1}{7} \quad / \cdot 7$$

$$546 = 450 + x$$

$$\boxed{x = 96}$$

. 96

2

. 74 - 72 -

96	90	74	x_i
1	1	5	f_i

$$\bar{x} = \frac{74 \cdot 5 + 90 \cdot 1 + 96 \cdot 1}{7}$$

$$\bar{x} = \frac{556}{7}$$

$$\boxed{\bar{x} = 79.43}$$

. 79.43