

$$y = -3x + 31 \quad - \quad y = 5x + 15$$

M ,

$$\begin{cases} y = 5x + 15 \\ y = -3x + 31 \end{cases}$$

$$5x + 15 = -3x + 31$$

$$8x = 16 \quad / : 8$$

$$x = 2 \rightarrow y = 5 \cdot 2 + 15 = 25$$

M(2, 25):

M (0, 0)

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{25 - 0}{2 - 0} = 12.5$$

$$y - y_1 = m(x - x_1)$$

$$y - 0 = 12.5(x - 0)$$

$$\boxed{y = 12.5x}$$

$$y = 12.5x \quad :$$

$$y = -7x + 35$$

M(2, 25)

$$25 = -7 \cdot 2 + 35$$

$$25 = 21$$

M(2, 25)

$$x = 2$$

M(2, 25)

y -

$$y = -7 \cdot 2 + 35 = 21$$

M

$$y = -7x + 35 \quad :$$

$$\boxed{d = 20} - \boxed{a_1 = 45} : , \quad 45$$

, 9 -

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

9 -

$$a_9 = 45 + (9-1) \cdot 20$$

$$a_9 = 45 + 8 \cdot 20$$

$$a_9 = 45 + 160$$

$$\boxed{a_9 = 205}$$

9 - 205 :

$$a_n = 285 , \quad 285$$

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

$$285 = 45 + (n-1) \cdot 20$$

$$240 = 20(n-1)$$

$$240 = 20n - 20$$

$$260 = 20n \quad / : 20$$

$$\boxed{n = 13}$$

285 13 - :

() 7 -

$$S_7 ,$$

$$S_n = \frac{n[2a_1 + (n-1)d]}{2}$$

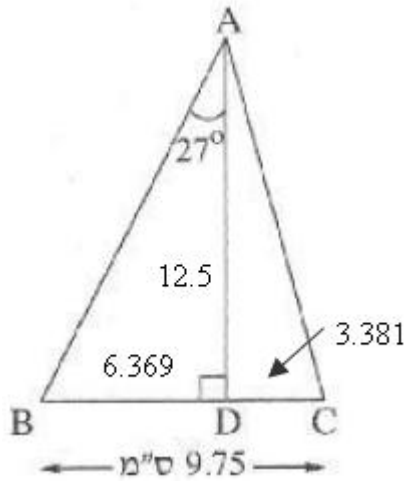
$$S_7 = \frac{7[2 \cdot 45 + 20 \cdot (7-1)]}{2}$$

$$S_7 = 3.5 \cdot (90 + 120)$$

$$S_7 = 3.5 \cdot 210$$

$$\boxed{S_7 = 735}$$

. 73 :



: $\triangle ABD$ - BD

$$\tan \angle BAD = \frac{BD}{AD}$$

$$\tan 27^\circ = \frac{BD}{12.5}$$

$$12.5 \tan 27^\circ = BD$$

$$\boxed{BD = 6.369}$$

. " 6.369 BD :

: $\triangle ACD$ - $\angle ACD$

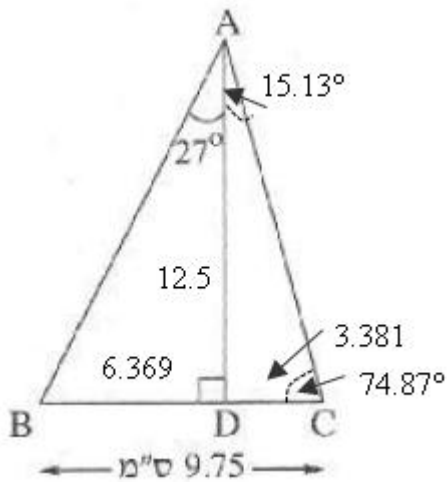
$$DC = BC - BD = 9.75 - 6.369 = " 3.381$$

$$\tan \angle ACD = \frac{AD}{DC}$$

$$\tan \angle ACD = \frac{12.5}{3.381}$$

$$\boxed{\angle ACD = 74.87^\circ}$$

. $\angle ACD = 74.87^\circ$:



. $\triangle DAC$ 180° $\angle CAD$:

$$\angle CAD = 180^\circ - 90^\circ - 74.87^\circ$$

$$\angle CAD = 15.13^\circ$$

$\angle BAC$

$$\angle BAD = 27^\circ - , \angle CAD = 15.13^\circ :$$

. $\angle BAC$ - AD :

10	9	8	7	6	5	x_i
1	4	1	6	3	6	f_i

$N = 1 + 4 + 1 + 6 + 3 + 6 = 21$:

21 :

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

$\bar{x} = \frac{5 \cdot 6 + 6 \cdot 3 + 7 \cdot 6 + 8 \cdot 1 + 9 \cdot 4 + 10 \cdot 1}{21}$

$\bar{x} = \frac{144}{21}$

$\bar{x} = 6.857$

6.857 :

$6 + 1 + 4 + 1 = 12$:

$\frac{12}{21} = \frac{4}{7}$:

$\frac{4}{7}$:

10	9	8	7	6	5	x_i
1	4	1	6	3	6	f_i
21	20	16	15	9	6	

$\frac{21+1}{2} = \frac{22}{2} = 11$

(21)

.11 -

.7

7

(001

- _____)

.7 :

"

"

9

4

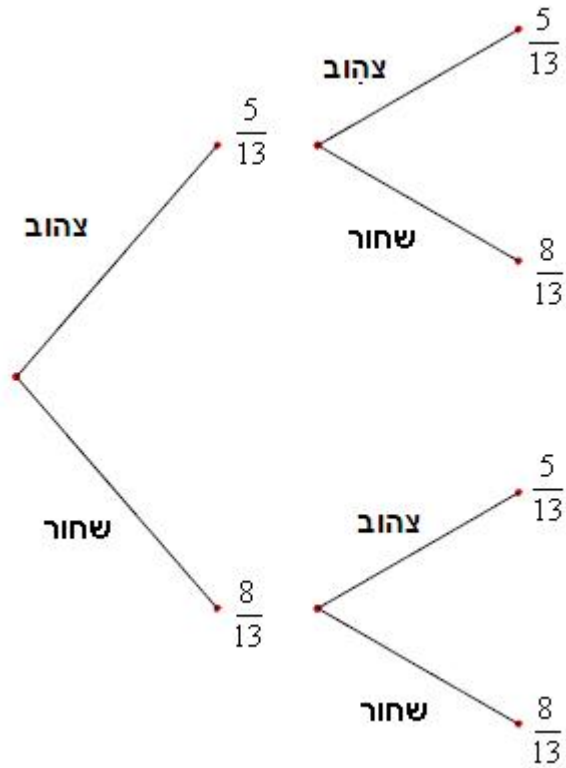
$\frac{4}{21}$:

$\frac{4}{21} = 0.1905 = 19.05\%$:

: -
()

.1

.2



:

$$P = \frac{8}{13} \cdot \frac{8}{13} = \frac{64}{169}$$

$$\cdot \frac{64}{169}$$

:

:

$$P = \frac{5}{13} \cdot \frac{5}{13} + \frac{8}{13} \cdot \frac{8}{13} = \frac{89}{169}$$

$$\cdot \frac{89}{169}$$

:

:

$$P = \frac{5}{13} \cdot \frac{8}{13} + \frac{8}{13} \cdot \frac{5}{13} = \frac{80}{169}$$

$$\cdot \frac{80}{169}$$

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