

$$\frac{1}{x-5} - \frac{5}{3x+15} = \frac{8}{x^2-25} :$$

$$\frac{1}{x-5} - \frac{5}{3x+15} = \frac{8}{x^2-25}$$

$$\Leftrightarrow \frac{\overset{3(x+5)/1}{1}}{x-5} - \frac{\overset{x-5/5}{5}}{3(x+5)} = \frac{\overset{3/8}{8}}{(x+5)(x-5)} \quad / \cdot 3(x+5)(x-5) \rightarrow \boxed{x \neq \pm 5}$$

$$\Leftrightarrow 3(x+5) - 5(x-5) = 24$$

$$\Leftrightarrow 3x+15 - 5x+25 = 24$$

$$\Leftrightarrow -2x+40 = 24$$

$$\Leftrightarrow -2x = -16 \quad :(-2)$$

$$\Leftrightarrow \boxed{x=8}$$

$$x \neq \pm 5$$

$$x = 8 :$$

$$M_t = M_0 \cdot q^t$$

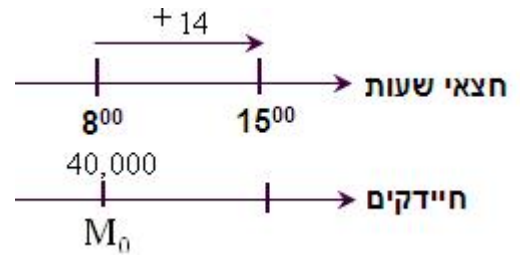
.t .q ()

. t - M_t , - M_0

. $q = 2$, .

$t = 14$, 14 , 7 15^{00} 8^{00}

$t = 14$, $a = 2$, $M_0 = 40,000$



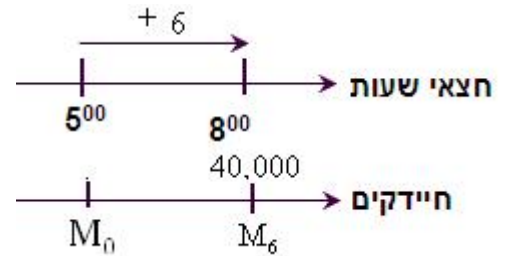
$$M_{14} = 40,000 \cdot 2^{14}$$

$$M_{14} = 655,360,000$$

. 655,360,000 15^{00} :

$t = 6$, 6 , 3 8^{00} 5^{00} .

$t = 6$, $a = 2$, $M_6 = 40,000$



$$40,000 = M_0 \cdot 2^6 \quad /: 2^6$$

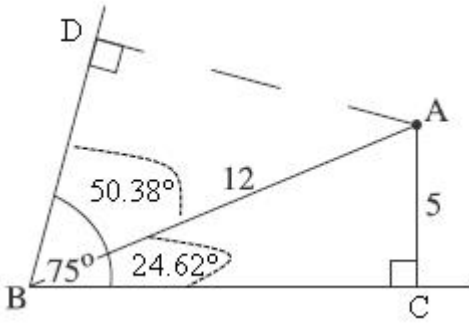
$$\frac{40,000}{2^6} = M_0$$

$$M_0 = 625$$

. 625 5^{00} :

$$\begin{aligned} \cdot a_1 = 10 : & \quad , \quad 10 \\ & \quad , \quad 7 \\ & \quad \cdot d = 7 \quad , \\ S_n = 342 & \quad , \quad 342 \quad " \end{aligned}$$

$$\begin{aligned} d = 5 , a_1 = 6 : \quad S_n &= \frac{n(2a_1 + d(n-1))}{2} \\ 342 &= \frac{n(2 \cdot 10 + 7(n-1))}{2} \quad / \cdot 2 \\ 684 &= n(20 + 7n - 7) \\ 684 &= n(13 + 7n) \\ 684 &= 13n + 7n^2 \\ 0 &= 7n^2 + 13n - 684 \\ n_{1,2} &= \frac{-13 \pm 139}{2 \cdot 7} \\ n_1 &= \frac{-13 + 139}{14} = \frac{126}{14} = 9 \\ n_2 &= \frac{-13 - 139}{14} = \frac{-152}{14} = \cancel{-10.9} \quad \leftarrow n > 0 \\ & \quad \cdot \quad 9 \quad : \end{aligned}$$



$$AC = 5$$

$$AD$$

$\triangle ABC$

$$\sin \angle ABC = \frac{AC}{AB}$$

$$\sin \angle ABC = \frac{5}{12}$$

$$\sin \angle ABC = 0.4167$$

$$\angle ABC = 24.62^\circ$$

$$\angle ABD = 75^\circ - 24.62^\circ = 50.38^\circ$$

$\triangle ABD$

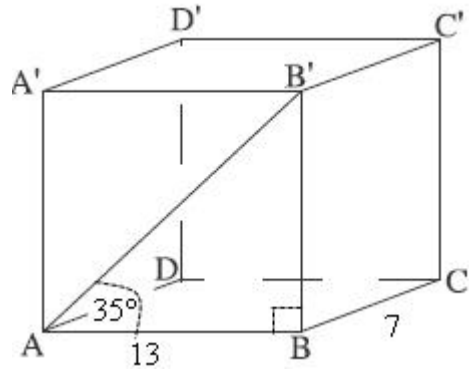
$$\sin \angle ABD = \frac{AD}{AB}$$

$$\sin 50.38^\circ = \frac{AD}{12}$$

$$12 \sin 50.38^\circ = AD$$

$$AD = 9.423$$

$$AD = 9.423$$



. ABCD

. BB'

ΔABB'

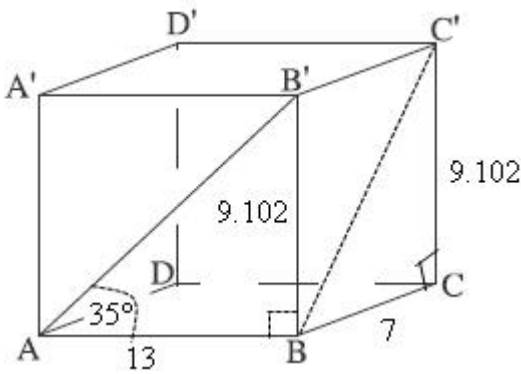
$$\tan \angle BAB' = \frac{BB'}{AB}$$

$$\tan 35^\circ = \frac{BB'}{13}$$

$$13 \tan 35^\circ = BB'$$

$$\boxed{BB' = 9.102}$$

BB' = " 9.102



:

BC'

ΔC'BC

$$(BC')^2 = (BC)^2 + (CC')^2$$

$$(BC')^2 = 7^2 + 9.102^2$$

$$(BC')^2 = 131.85$$

$$BC' = \sqrt{131.85}$$

$$\boxed{BC' = 11.482}$$

BC' = " 11.482

ABCD

, BB'CC'

, BC'

. C'BC

, ∠C'BC

ΔC'BC

$$\tan \angle C'BC = \frac{CC'}{BC}$$

$$\tan \angle C'BC = \frac{9.102}{7}$$

$$\tan \angle C'BC = 1.3$$

$$\boxed{\angle C'BC = 52.437^\circ}$$

. 52.437°

ABCD

BC'

:

$$\cdot \quad 6 \quad \quad \quad 71 \quad \cdot$$

$$\cdot \quad 8 \quad \quad \quad 75 \quad \cdot$$

$$z = \frac{x - \bar{x}}{s}$$

$$x = 80 \quad , 80$$

$$z = \frac{80 - 71}{6} = \frac{9}{6} = 1.5 \quad \cdot$$

$$z = \frac{80 - 75}{8} = \frac{5}{8} = 0.625 \quad \cdot$$

$$(1.5 > 0.625)$$

· , , , :