

$$f(x) = x^2 - 2x - 8$$

, $x=0$ y -

$$f(0) = 0^2 - 2 \cdot 0 - 8 = -8 \rightarrow \boxed{(0, -8)} :$$

: $f(x) = 0$ x -

$$0 = x^2 - 2x - 8$$

$$x_{1,2} = \frac{2 \pm 6}{2 \cdot 1}$$

$$x_1 = \frac{2+6}{2} = \frac{8}{2} = 4 \rightarrow \boxed{(4, 0)}$$

$$x_2 = \frac{2-6}{2} = \frac{-4}{2} = -2 \rightarrow \boxed{(-2, 0)}$$

. $(-2, 0)$, $(4, 0)$, $(0, -8)$:

.(" ")

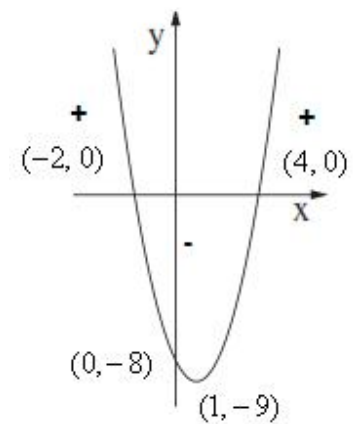
$$a = 1 > 0$$

$$x_k = \frac{-b}{2a} = \frac{-(-2)}{2 \cdot 1} = \frac{2}{2} = 1$$

. $(1, -9)$

$$y = 1^2 - 2 \cdot 1 - 8 = -9$$

$(1, -9)$:



. $x = -2$ -

$x = 4$ -

, x -

. $x < -2$ $x > 4$:

"

$$q = \frac{2}{3} \quad , \quad \frac{2}{3}$$

$$a_3 = 2368 \quad , \quad 2368$$

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

$$a_1 q^{3-1} = 2368$$

$$a_1 \cdot \left(\frac{2}{3}\right)^2 = 2368 \quad / : \left(\frac{2}{3}\right)^2$$

$$a_1 = \frac{2368}{\left(\frac{2}{3}\right)^2}$$

$$\boxed{a_1 = 5,328}$$

$$. \quad 5,328 \quad :$$

1?

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

$$a_1 = 5,328, \quad q = \frac{2}{3}, \quad n = 8$$

$$S_8 = \frac{5,328 \cdot \left(\left(\frac{2}{3}\right)^8 - 1\right)}{\frac{2}{3} - 1}$$

$$S_8 = \frac{-5120.11}{-\frac{1}{3}}$$

$$\boxed{S_8 = 15,360.33}$$

$$. \quad 15,360.33 \quad :$$

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

.t .q ()
 . t - M_t , - M_0
 . 60 5:00 , .
 . 45 , 3 , 8:00
 t = 3 , 3 ,

M_t	M_0	q	t
45	60	?	3

$$45 = 60 \cdot q^3 \quad /:60$$

$$0.75 = q^3$$

$$\sqrt[3]{0.75} = q$$

$$q = 0.9086$$

9 , 14:00

M_t	M_0	q	t
?	60	0.9086	9

$$M_t = 60 \cdot 0.9086^9$$

$$M_t = 25.3125$$

. 25.3125 :

$$q = \frac{100 - P}{100} : ,() P .$$

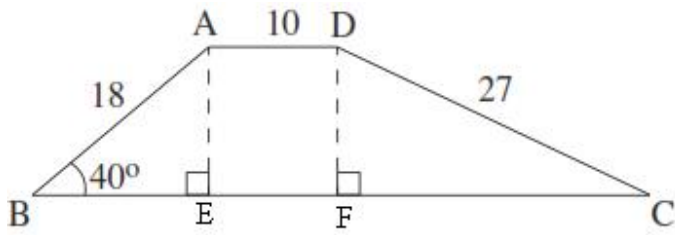
$$0.9086 = \frac{100 - P}{100} \quad / \cdot 100$$

$$90.86 = 100 - P$$

$$P = 9.14$$

. 9.14% :

DF = AE



$\triangle ABE$

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

$$\sin 40^\circ = \frac{AE}{18}$$

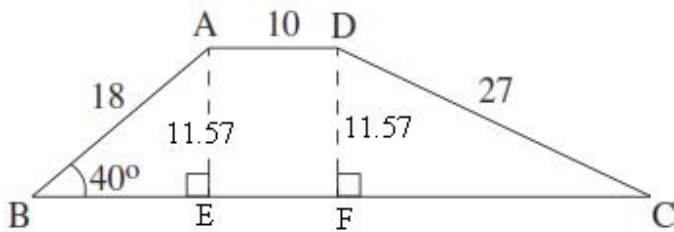
$$18 \sin 40^\circ = AE$$

$$\boxed{AE = 11.57}$$

∴ " 11.57 :

∴ DF = " 11.57

ADFE



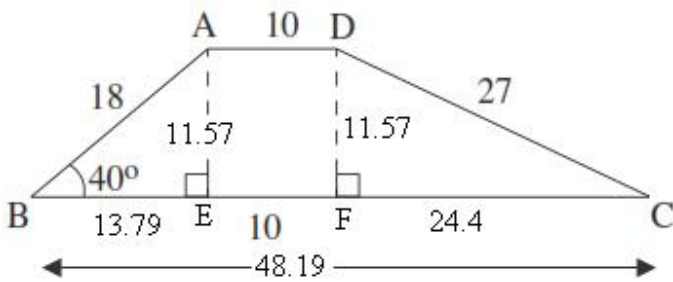
$\triangle DCF$

$$\sin \angle C = \frac{DF}{DC}$$

$$\sin \angle C = \frac{11.57}{27}$$

$$\boxed{\angle C = 25.37^\circ}$$

∴ 25.37° DCB :



$\triangle ABE$

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

$$11.57 + (BE)^2 = 18^2$$

$$(BE)^2 = 190.14$$

$$\boxed{BE = 13.79}$$

$\triangle DFC$

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

$$11.57 + (CF)^2 = 27^2$$

$$(CF)^2 = 595.14$$

$$\boxed{CF = 24.4}$$

∴ EF = " 10

ADFE

" 48.19 :

$$S_{ABCD} = \frac{(AD + BC) \cdot AE}{2} = \frac{(10 + 48.19) \cdot 11.57}{2} = " 336.6 :$$

∴ " 336.6 :

:

$$P(\text{red}) = \frac{1}{3}, P(\text{blue}) = \frac{1}{3}, P(\text{green}) = \frac{2}{6} = \frac{1}{3},$$

:

$$P(\text{red, blue, green}) = P(\text{red}) \cdot P(\text{blue}) \cdot P(\text{green}) = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{27}$$

$$\cdot \frac{1}{27} \quad :$$

:

$$P(\text{blue, green, red}) = P(\text{blue}) \cdot P(\text{green}) \cdot P(\text{red}) = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{27}$$

$$\cdot \frac{1}{27} \quad :$$

.3

$$P(\text{all 3}) = P(\text{red, blue, green}) = P(\text{red}) \cdot P(\text{blue}) \cdot P(\text{green}) = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} = \frac{1}{27}$$

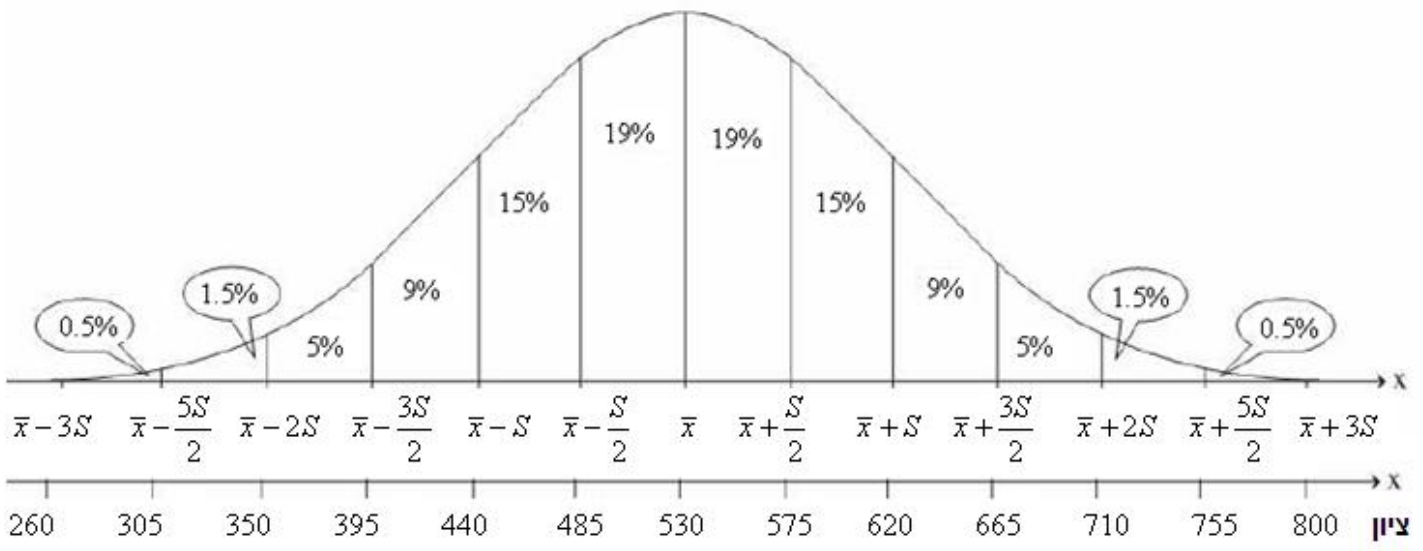
$$P(\text{red, blue, green}) + P(\text{blue, green, red}) + P(\text{green, red, blue}) = 3 \cdot P(\text{all 3}) = 3 \cdot \frac{1}{27} = \frac{1}{9}$$

$$\cdot \frac{1}{9} \quad :$$

$\bar{x} = 530$ $s = 90$

$\frac{90}{2} = 45$

90



620

$9\% + 5\% + 1.5\% + 0.5\% = 16\% = 0.16$:
 $.016$:

$620 - 530$
 $19\% + 15\% = 34\% = 0.34$:
 $.034$: