

$y = -x^2 - 2x + 3$

$x = 0$

$B(0, 3) : y = -0^2 - 2 \cdot 0 + 3 = 3$

$y = 0$

$0 = -x^2 - 2x + 3$

$$x_{1,2} = \frac{-(-2) \pm \sqrt{(-2)^2 - 4 \cdot (-1) \cdot 3}}{2 \cdot 1}$$

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

$$x_1 = \frac{2+4}{-2} = \frac{6}{-2} = -3 \rightarrow A(-3, 0)$$

$$x_2 = \frac{2-4}{-2} = \frac{-2}{-2} = 1 \rightarrow C(1, 0)$$

$C(1, 0), B(0, 3), A(-3, 0) :$

$y = x + 3$

$B - A$

$y = x + 3$

$0 = 0$

$0 = -3 + 3$

$: A(-3, 0)$

$y = x + 3$

$3 = 3$

$3 = 0 + 3$

$: B(0, 3)$

$A(-3, 0)$

$B(0, 3)$

$-3 -$

$0 -$

$-x$

$x < -3 \quad x > 0 :$

$$, q = \frac{9}{10}$$

$$\frac{9}{10}$$

$$. a_4 = 4374 : , 4374$$

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

$$a_1 q^{4-1} = 4374$$

$$a_1 \cdot \left(\frac{9}{10}\right)^3 = 4374 \quad /: \left(\frac{9}{10}\right)^3$$

$$a_1 = \frac{4374}{\left(\frac{9}{10}\right)^3}$$

$$\boxed{a_1 = 6,000}$$

$$. 6,000$$

1?

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

$$. a_1 = 6,000, \quad q = \frac{9}{10}, \quad n = 6$$

$$S_6 = \frac{6,000 \cdot \left(\left(\frac{9}{10}\right)^6 - 1\right)}{\frac{9}{10} - 1}$$

$$S_6 = \frac{-2811.35}{-\frac{1}{10}}$$

$$\boxed{S_6 = 28,113.54}$$

$$. 28,113.54 , 6 , :$$

$$DE = 12 - 8 = 4, CE = BA = 8 :$$

AE

$\triangle ADE$

$$\tan 65^\circ = \frac{AE}{DE}$$

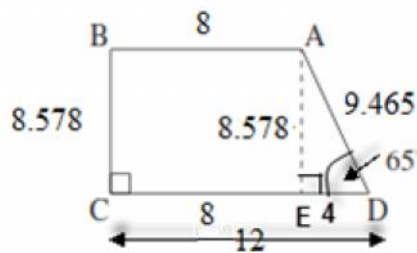
$$\tan 65^\circ = \frac{AE}{4} \quad / \cdot 4$$

$$4 \tan 65^\circ = AE$$

AE = 8.578

$$S_{ABCD} = \frac{(AB + DC) \cdot AE}{2} = \frac{(8 + 12) \cdot 8.578}{2} = 85.78 :$$

85.78 :



$\triangle ADE$

$$\cos 65^\circ = \frac{DE}{AD}$$

$$\cos 65^\circ = \frac{4}{AD} \quad / \cdot AD$$

$$AD \cos 65^\circ = 4 \quad / : \cos 65^\circ$$

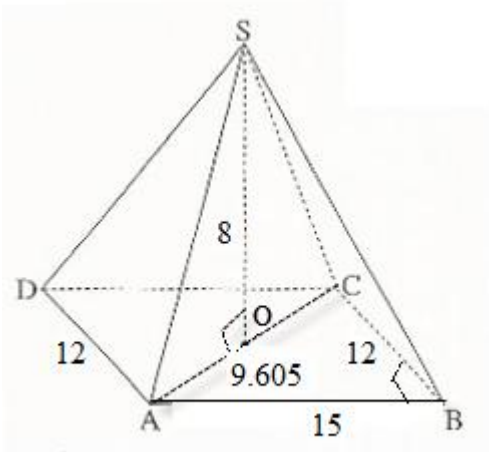
$$AD = \frac{4}{\cos 65^\circ}$$

AD = 9.465

BC = AE = 8.578

$$8.578 + 8 + 9.465 + 12 = 38.04 :$$

38.04 :



∴ " 480 SABCD

$$V_{SABCD} = \frac{AB \cdot AD \cdot H}{3}$$

$$480 = \frac{15 \cdot 12 \cdot H}{3}$$

$$480 = 60H \quad / : 60$$

$$H = " 8$$

∴ " 8 :

, AC (1) .

∴ (BC = AD = " 12)

ΔABC

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

$$(AC)^2 = 15^2 + 12^2$$

$$(AC)^2 = 225 + 144$$

$$(AC)^2 = 369 \quad / \sqrt{\quad}$$

$$AC = " 19.21$$

∴ " 19.21 AC :

∴ ∠SAO , (2)

O ,

$$AO = \frac{AC}{2} = \frac{19.21}{2} = " 9.605$$

ΔSAO

$$\tan \angle SAO = \frac{SO}{AO}$$

$$\tan \angle SAO = \frac{8}{9.605}$$

$$\boxed{\angle SAO = 39.79^\circ}$$

∴ 39.79° :

$$\frac{3}{5} = 0.6$$

$$1 - 0.6 = 0.4$$

$$P = 0.6 \cdot 0.6 \cdot 0.4 + 0.6 \cdot 0.4 \cdot 0.6 + 0.4 \cdot 0.6 \cdot 0.6 = 0.432$$

$$0.432$$

$$0.432 -$$

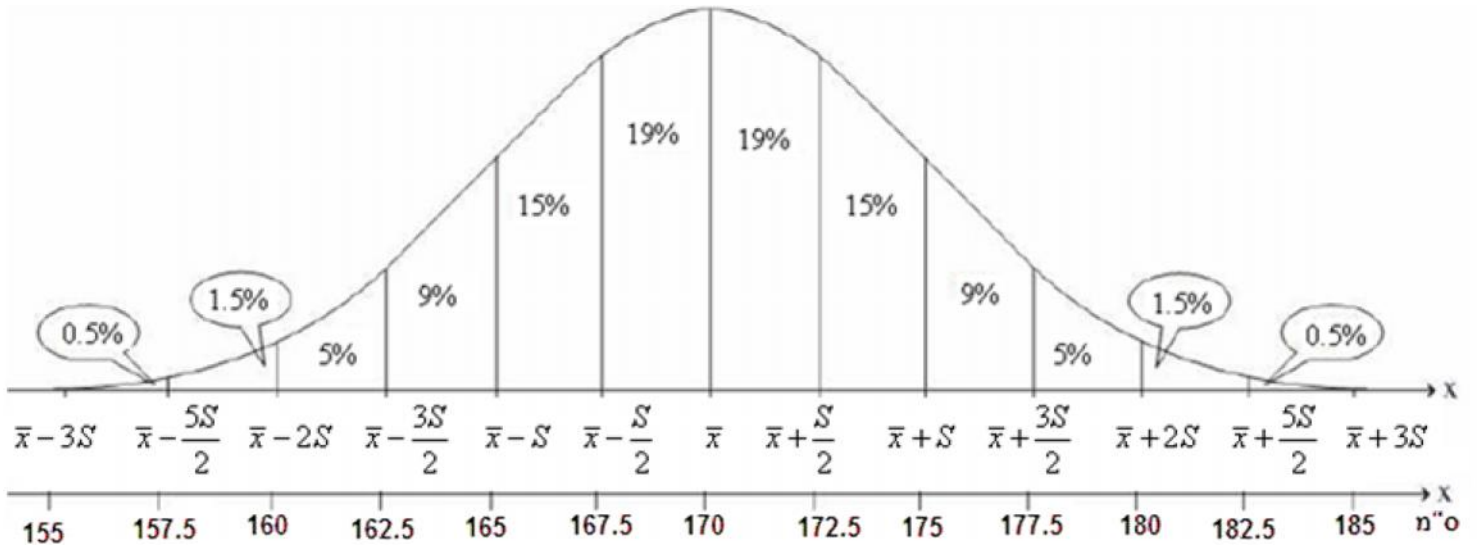
$$P = 0.6 \cdot 0.6 \cdot 0.6 = 0.216$$

$$P = 0.432 + 0.216 = 0.648$$

$$0.648$$

$\bar{x} = 170 \quad s = 5$

$\frac{5}{2} = 2.5$



" 165

$0.5\% + 1.5\% + 5\% + 9\% = 16\%$

" 165 - 16% :

800

$16\% \cdot 800 = 0.16 \cdot 800 = 128$

" 165 - 128 :

" 180 - " 160

$100\% - (0.5\% + 1.5\% + 0.5\% + 1.5\%) = 96\%$

$(5\% + 9\% + 15\% + 19\% + 19\% + 15\% + 9\% + 5\% = 96\%)$

" 180 - " 160 96% :