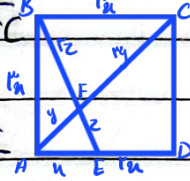


① $ED \perp AE \Rightarrow AE \perp ED$ $AE \perp AD$

② $AB \parallel CD \Rightarrow \triangle AFE \sim \triangle FCB$



$BE^2 = (x)^2 + (x)^2 \Rightarrow BE = \sqrt{2}x \Rightarrow y = \sqrt{2}x \Rightarrow x = \frac{\sqrt{2}}{2}y$
 $(AC)^2 = (x)^2 + (x)^2 \Rightarrow AC = \sqrt{2}x \Rightarrow y = \sqrt{2}x \Rightarrow x = \frac{\sqrt{2}}{2}y$

$\frac{AF}{AC} = \frac{AE}{AD} \Rightarrow \frac{AF}{AC} = \frac{1}{2}$

$\frac{EF}{AF} = \frac{x}{y} = \frac{\sqrt{2}}{2}$

$EF \perp AC \Rightarrow AF = \frac{1}{2} AC$

③ $\triangle ADE \sim \triangle AED$

$\triangle ADE \sim \triangle AED$

$\frac{AE}{AC} = \frac{AD}{AB} \Rightarrow \frac{x}{y} = \frac{1}{2}$

$(x+y)(x-y) = 0$
 $x = y$ or $x = -y$

④ $DE \parallel BC \Rightarrow \triangle ADE \sim \triangle ABC$

$AG = x, EG = \frac{1}{2}y, FH = y, EH = x$

$DE \parallel BC \Rightarrow \triangle ADE \sim \triangle ABC \Rightarrow \frac{AE}{AC} = \frac{AF}{AB}$

$AC = AE + EC = x + \frac{1}{2}y$

$y = \frac{1}{2}x$

$\frac{AE}{AC} = \frac{x}{x + \frac{1}{2}y} = \frac{AF}{AB} = \frac{AF}{2y}$

$\frac{BC}{DE} = \frac{AB}{AD} \Rightarrow BC = 2DE$

$\frac{AE}{AC} = \frac{AD}{AB} = \frac{DE}{BC} \Rightarrow \frac{x}{x + \frac{1}{2}y} = \frac{DE}{BC} \Rightarrow BC = 2DE$

$\triangle DHE \sim \triangle CHF \Rightarrow \frac{EH}{FH} = \frac{DH}{CH} = \frac{DE}{CF} \Rightarrow \frac{x}{y} = \frac{DE}{CF} \Rightarrow CF = \frac{1}{2}DE$

①, ④ $\Rightarrow BC = BF + CF \Rightarrow DE = \frac{1}{2}BC$



U, b, L, W

a^r, b^r, s, t, r, E_0

SUBJECT

Year:

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$h s b s r$

$S s \frac{1}{r} a^r \times E s E_0$

$h s \frac{ab}{c} \rightarrow h s E s \frac{ab}{c} s E \rightarrow a b s \Lambda_0$

(5)

$a^r + b^r = E_0 \rightarrow \left(\frac{1}{r} \right)$

$a b s \Lambda_0$

$\frac{AB^r}{Ac^r} s \frac{\Lambda}{r} s d$

~~$b s \frac{1}{r} a^r \times E s E_0$~~

$\frac{AB}{Ac} s \sqrt{\frac{1}{E}} s \frac{1}{r}$

(6)

$AB s \Lambda$

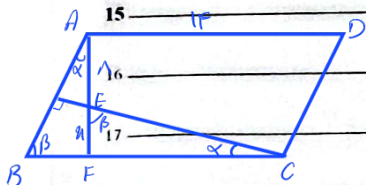
$AE s Dc$

$BF s q$

$S s AD \times BF s E \times q s \Lambda E$

$AD s E$

$S s AE \times AE s \Lambda \times AF$



$$\frac{q}{4} = \frac{\Lambda}{4\pi\Lambda} \rightarrow q = F$$

$$AF = r + \Lambda = 1r$$

$\Lambda \times AF s \Lambda E$

$AF s \frac{\Lambda E}{\Lambda} s b, d$

(9)

(4)

$Bc s \Lambda$

$BE s H$

$$EH = BH = \frac{H}{r} = d$$

$\frac{AD}{DC} s \frac{AB}{BC} s \frac{H}{\Lambda} \rightarrow \frac{AE}{AB} s \frac{AD}{AC} s \rightarrow AE s AB, BC s H, \Lambda s r$

(7) $BN s Nc$

$BH^r s AH, Hc$

$AH s q$

$BH^r s \pi(r + a) s r a^r \rightarrow BH s \pi \sqrt{r}$

$HK s q$

$S s \frac{1}{r} AH \cdot BH s \frac{1}{r} \times \pi \sqrt{r} s \frac{\sqrt{r}}{r} \pi r$

$Kc s q$

$S s r s r \times \frac{1}{r} \times A c \times BH s E \pi, \pi \sqrt{r} s E \sqrt{r} \times r$

$\frac{S}{r} s \frac{r \sqrt{r} \pi r}{r} s \Lambda$

و.ب.ل.ل

①

$$\frac{BN}{NC} = \frac{w}{y}$$

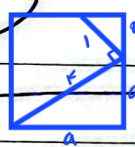
$$\frac{BN}{BC} = \frac{w}{a}$$

$$\frac{S_{BMN}}{S_{ABC}} = \frac{BM}{AB} \times \frac{BN}{BC}$$

$$= \frac{1}{4}$$

$$\frac{1}{4} = \frac{BM}{AB} \times \frac{w}{a} = \frac{BM}{AB} = \frac{1}{4} \times \frac{a}{w} = \frac{a}{4w}$$

$$\frac{BM}{AM} = \frac{2K}{EK} = \frac{a}{c} = \frac{1}{2}$$



$$\frac{y}{an} = \frac{a}{a} = \frac{1}{r} \rightarrow a - an = ry$$

$$r - a = ry \rightarrow r = \frac{a}{1-y}$$

$$r = (a-n) + a \rightarrow n = \frac{r}{2}, a = \frac{r}{2}$$

② $d_s^r \in r_1^r, r_2^r, r_3^r, r_4^r \rightarrow r_5^r$

$$S_s d_s^r = \frac{1V}{r} = \Delta 10$$

③ $\frac{A+B+C}{r} = G$

④ $\frac{A+C}{r} = D$

⑤ $\frac{BD}{FD} = 9$

$$\frac{A+B+C}{r} = G$$

$$\frac{A+C}{r} = D$$

$$\frac{66}{r} = 1 \Rightarrow r = 66$$

$$\frac{A+B+C}{r} = \frac{C + \frac{A+B+C}{r}}{r} = \frac{G+C}{r} = E$$

$$\frac{t}{4} = 1 - 1$$

$$\frac{r}{w} \times \frac{6}{r} = \frac{96}{r} = 1$$

~~⑥~~

~~⑦~~

$$\frac{6}{r} = \frac{6}{r} = 1$$

$$\frac{1}{a} = \frac{r}{r} \times \frac{r}{w} = 1$$

$$\frac{1}{a} = \frac{1}{a} = \frac{FD}{DB} = 1$$