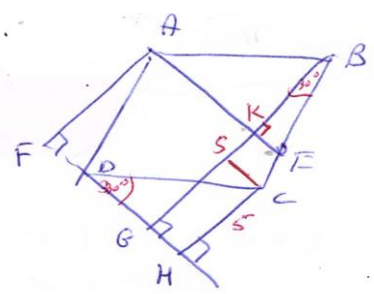


0.32  
4



מלבנים  $\parallel$  (מלבנים)  $\times$   $\triangle BCS = \triangle APF$   
(מלבנים)  
 $\Downarrow$   
 $BS = AF \iff (S.S.S) \triangle BSC \cong \triangle AFD$

(1)  
KF  $\parallel$  BN (מלבנים)  
(מלבנים)  
BG  $\parallel$  CE (מלבנים)  
SG = CH (מלבנים)  $\triangle SGC$   
BC = AP  
 $\angle S = 90^\circ = \angle F$

(2)

(S.S.S)  $\triangle ADK \cong \triangle DCH$  (S.S)  $\triangle BEK \cong \triangle ADF$   
 $\Downarrow$   $\Downarrow$   
BK = CH  $\frac{BK}{AF} = \frac{BE}{AD} = \frac{1}{2}$   
 $\frac{CH}{AF} = \frac{1}{2}$

$\triangle KBE$ :  $KB = S$ ,  $BE = 2x$ ,  $KE = x$  (מלבנים)  $\leftarrow HC = KB = S$ ,  $DC = 2HC = 2S$  (2)  
 $(2x)^2 = x^2 + 2S \rightarrow x = \frac{\sqrt{2S}}{\sqrt{3}} \rightarrow BC = 4x = 4\sqrt{\frac{2S}{3}}$   $\triangle APF = 2BC + 2PC = \frac{8\sqrt{2S}}{\sqrt{3}} + 20 = \frac{20(2\sqrt{3} + 3)}{3}$