

1.94  
S



$$x = CE = FD \quad (10)$$

$$AB + CD = 20$$

$$2x + 2AB = 20$$

$$AB = 10 - x$$

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$$AB + CD = AC + BD$$

$$AC = BD$$

$$20 = 2AC \rightarrow AC = 10$$

$$AC^2 = AE^2 + CE^2$$

:  $\triangle ACE$

$$10^2 = 8^2 + CE^2 \rightarrow CE = 6 = x$$

2R =

$AB = 4$
$CD = 16$
$AC, BD = 10$