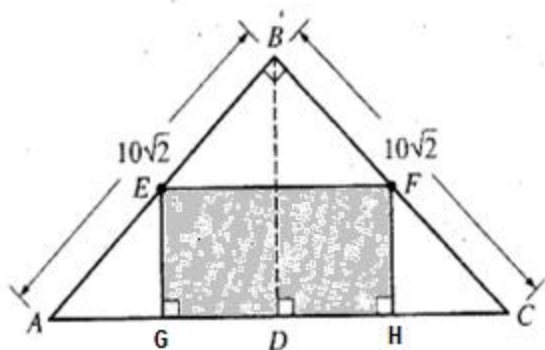


Problem of the week

Due no later than

Friday February 7, 2020

****All work must be shown for credit



In the right $\triangle ABC$ above, $\overline{EF} \parallel \overline{AC}$, F is the midpoint of \overline{BC} , and G is the midpoint of \overline{AD} .
What is the area of the shaded rectangular region?

HINT(use Pythagorean Theorem)