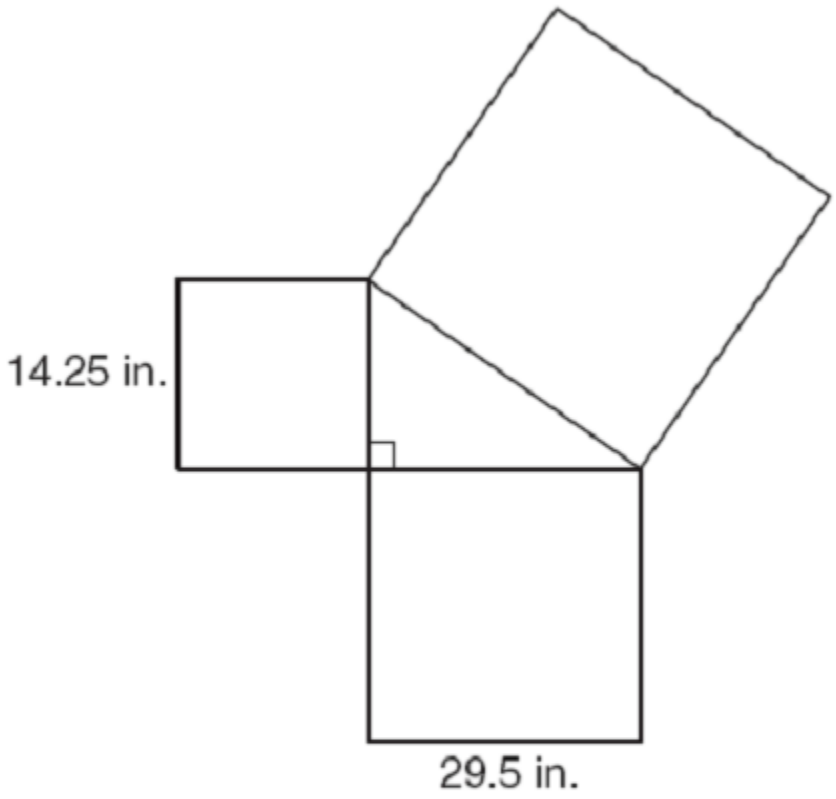
Pythagorean Theorem Practice

15 The drawing below shows how 3 squares can be joined at their vertices to form a right triangle.



Which is closest to the area in square inches of the largest square?

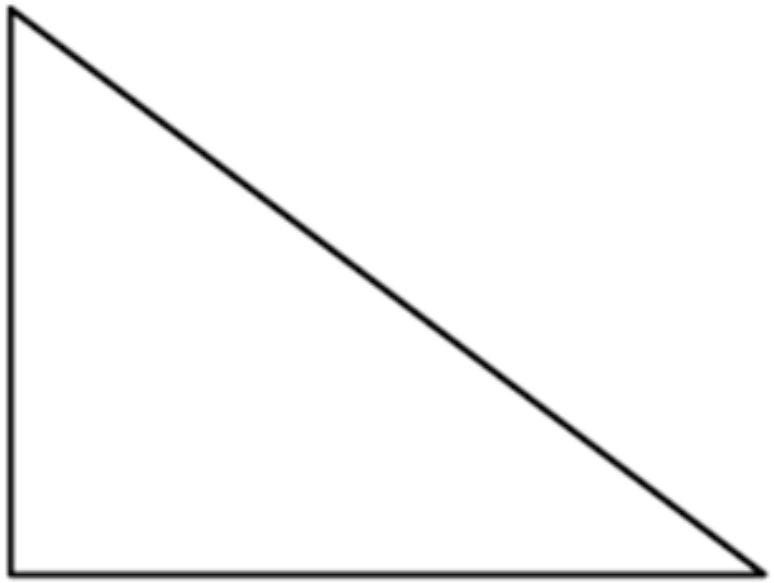
A 1914 in.^{2}

B 233 in.^{2}

C 210 in.^{2}

D 1073 in.^{2}

Look at the right triangle shown below. Which of the following could be the triangle's dimensions?



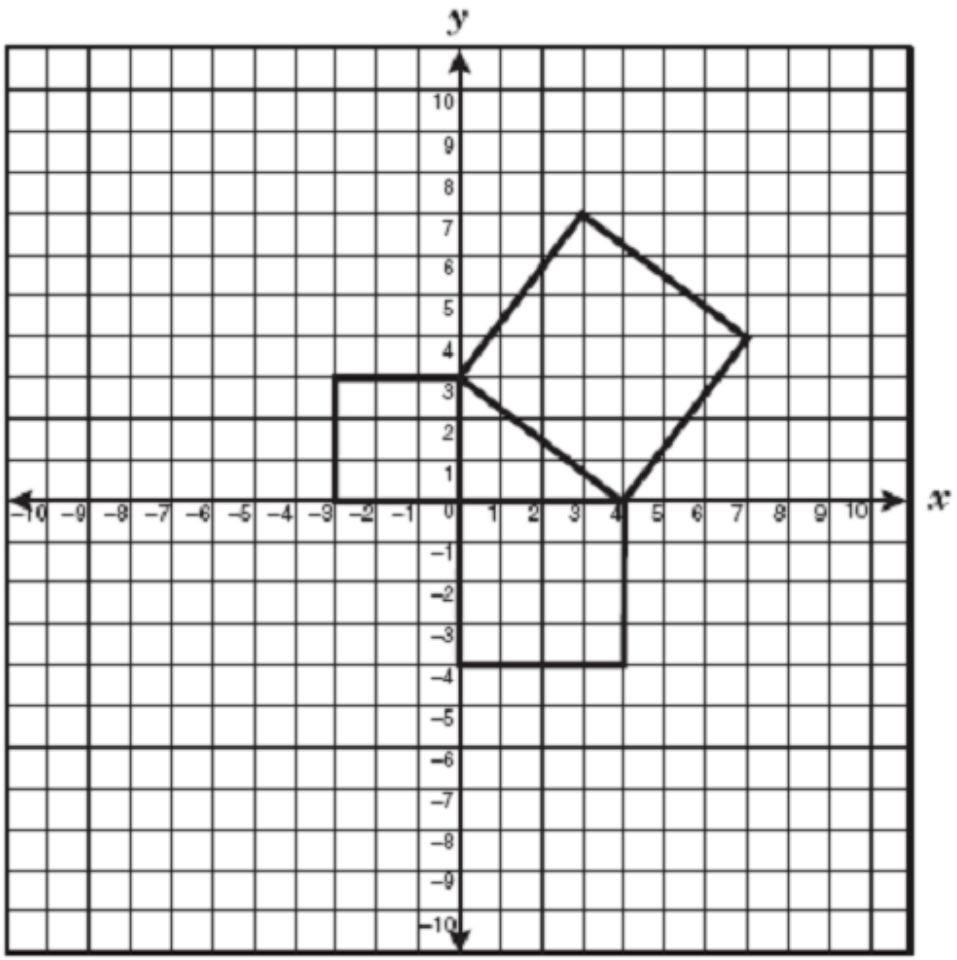
F 12, 16.8, 18.2

G 5.4, 10.6, 16

H 1.2, 1.6, 2

J 8, 10, 12.5

What is the area of the largest square in the diagram?



F 5 units^2

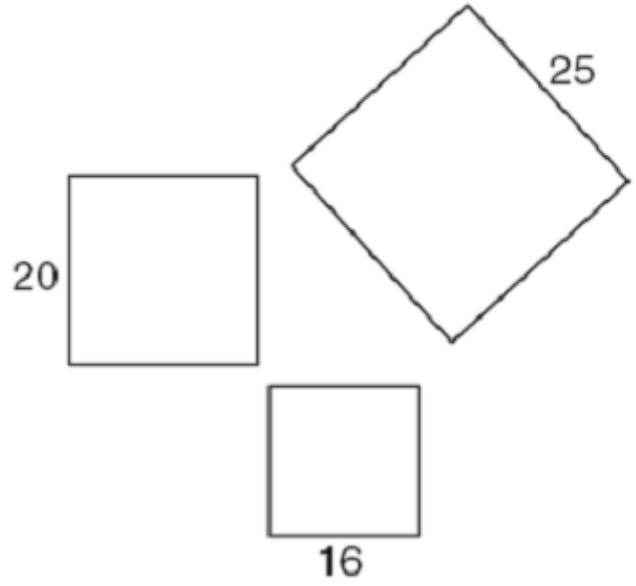
G 9 units^2

H 16 units^2

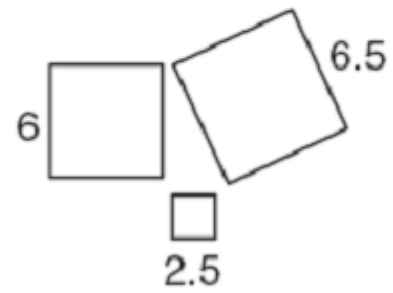
J 25 units^2

Using the dimensions of the squares shown below, determine which set of squares will form a right triangle.

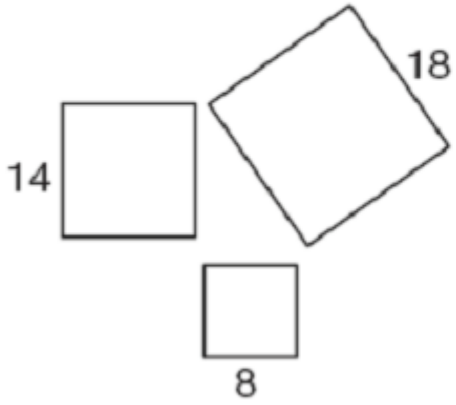
A



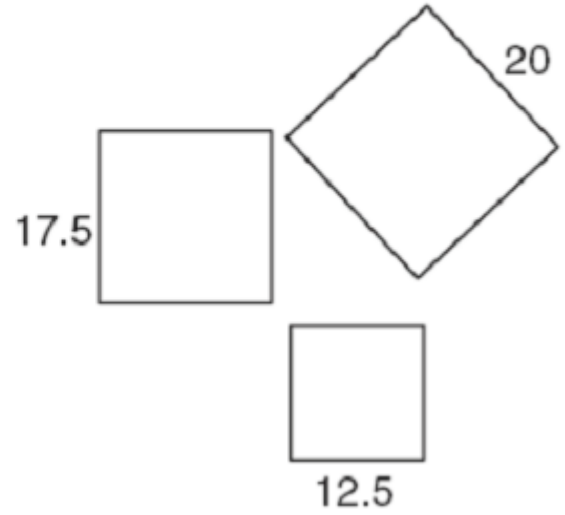
C



B

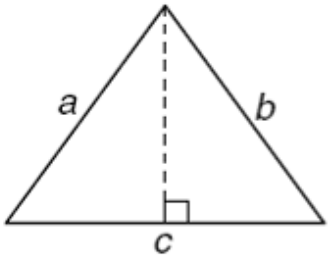


D

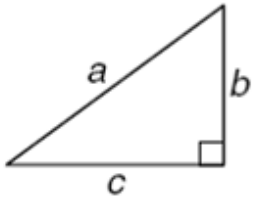


Which figure best represents a triangle with sides a, b, and c in which the relationship $a^2 + b^2 = c^2$ is always true?

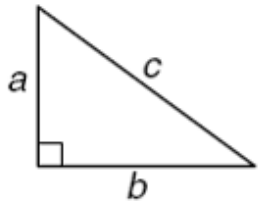
A



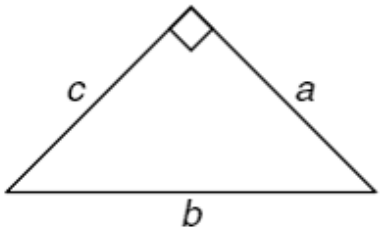
B



C

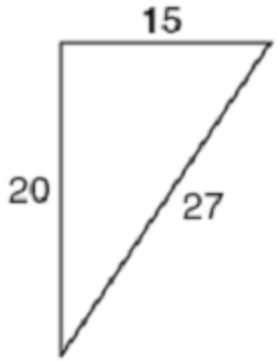


D

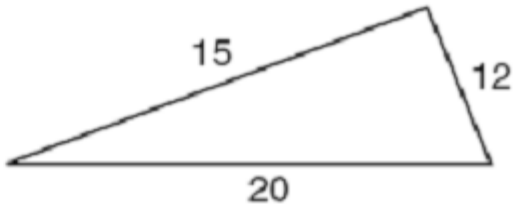


Use the Pythagorean theorem to find the figure that is a right triangle.

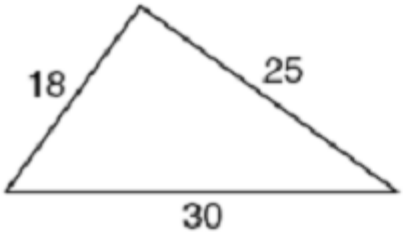
F



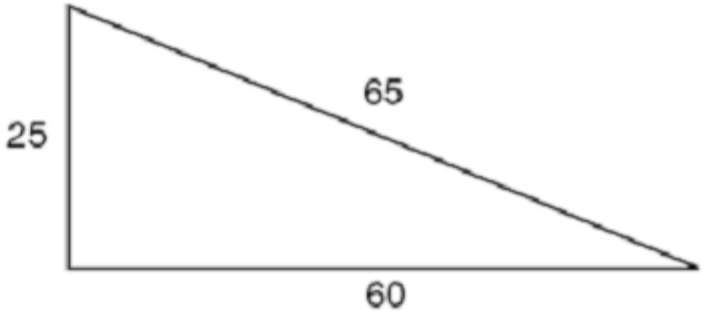
H



G



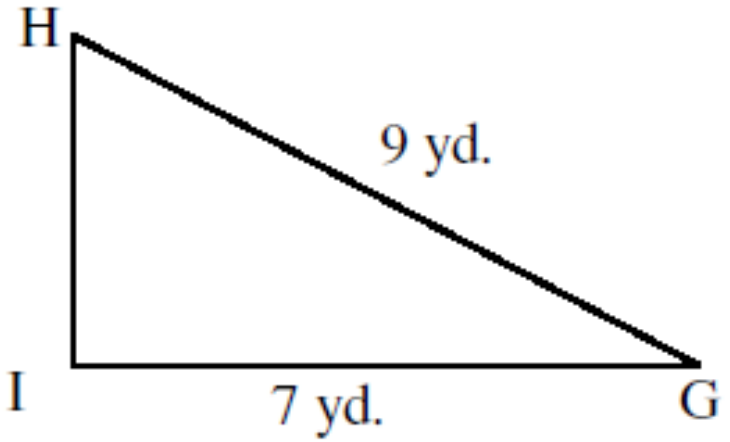
J



Find the distance between (-3, 5) and (-5, -5).

Find the distance between (5, 3) and (1, 3).

In the right triangle below, which expression represents the length of the leg *HI*?



A $\sqrt{16}$

B $\sqrt{32}$

C $\sqrt{81}$

D $\sqrt{130}$