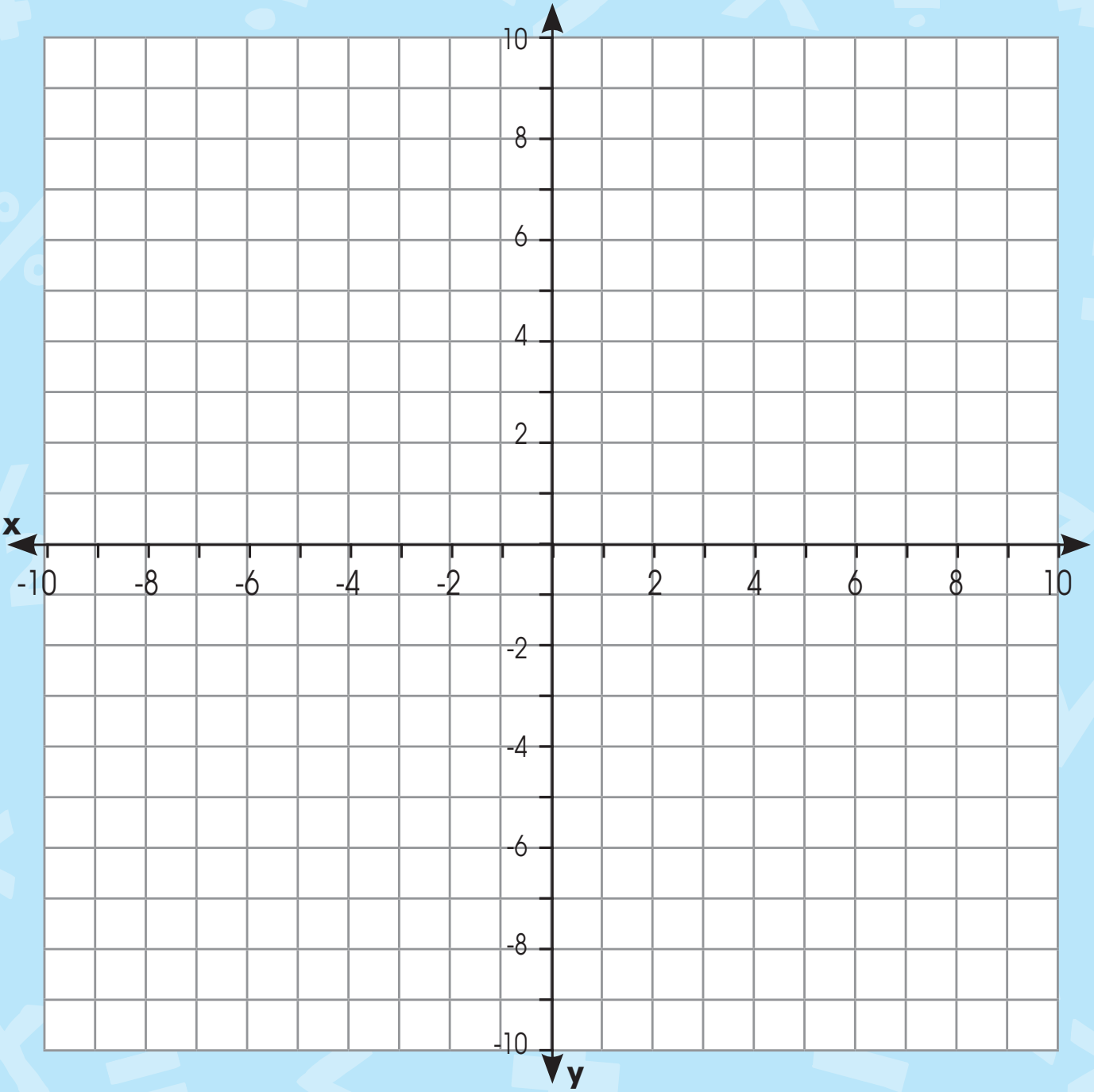
Cartesian Plane

Draw a different shape in each quadrant in the grid below. Write the coordinates for each shape.



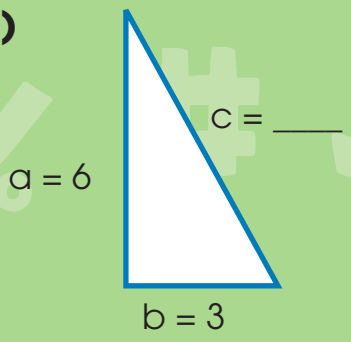
Pythagorean Theorem

The hypotenuse of a **right triangle** is the side that is opposite the right angle, or the "long side" of the triangle. The other two sides are the "legs" of the triangle.

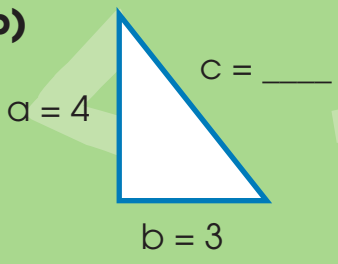
The theory is $a^2 + b^2 = c^2$ (c^2 is the hypotenuse)

Find the hypotenuse for the following triangles below.

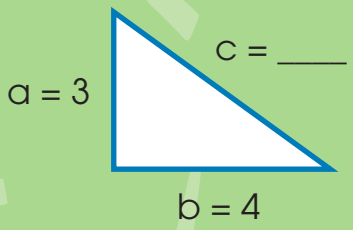
a)



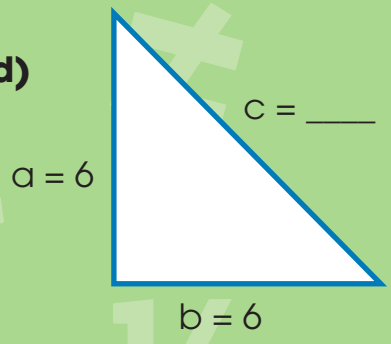
b)



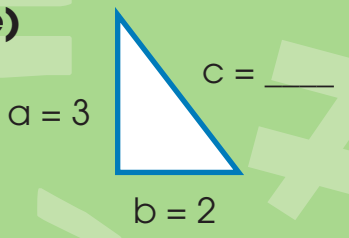
c)



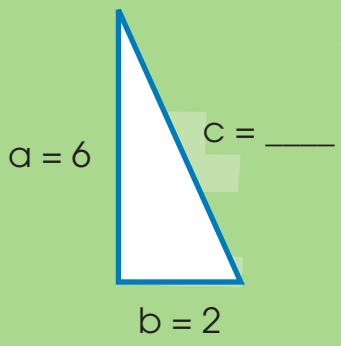
d)



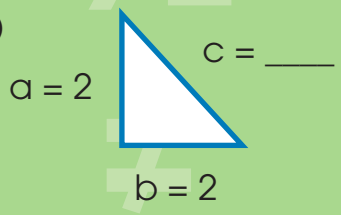
e)



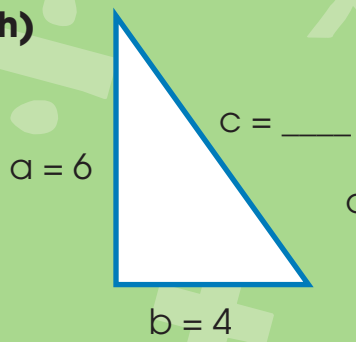
f)



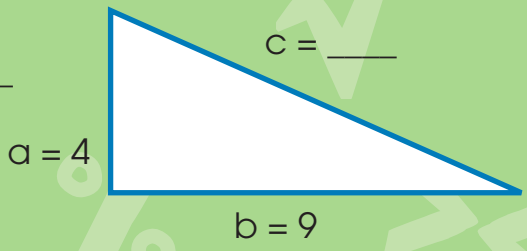
g)



h)



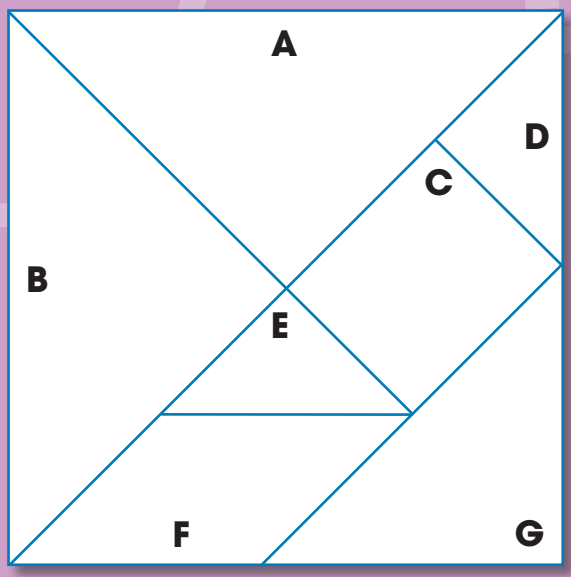
i)

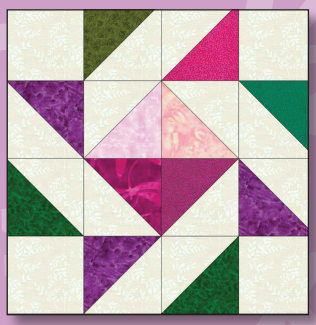


Tangrams

a) Label the shape of each tangram piece.

A	
B	
C	
D	
E	
F	
G	





b) Cut apart the seven tangram pieces. Use two or more pieces to create the following shapes. Indicate the individual shapes/pieces used to create each shape.

Trapezoid	
Parallelogram	
Rectangle	
Square	
Triangle	