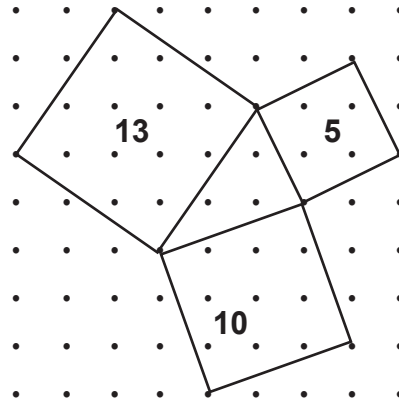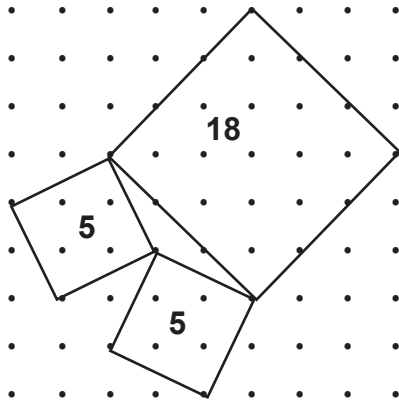## Inverse of Pythagorean Theorem

Supplementary material for groups that move at a faster pace than other groups in the class

We can use the geoboard to show that if the angle opposite to side c is greater that 90°, then $a^2 + b^2 < c^2$, and if the angle opposite to c is less than 90°, then $a^2 + b^2 > c^2$.

1) Construct a triangle on the geoboard that does not have a right angle.
2) Verify that $a^2 + b^2 \neq c^2$