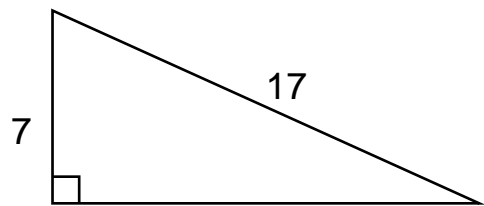
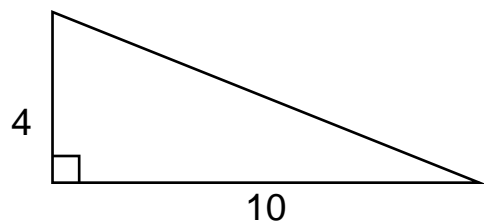
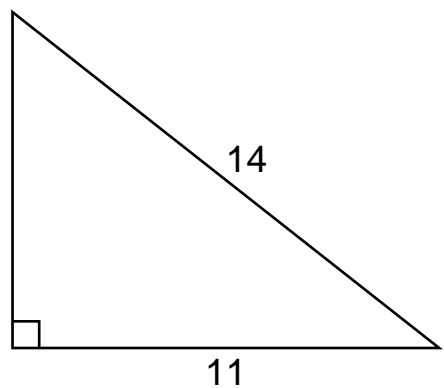


Name _____ Date _____

Find the length of the third side of each triangle.

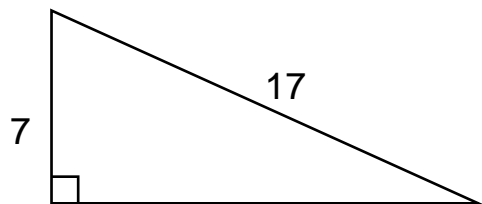




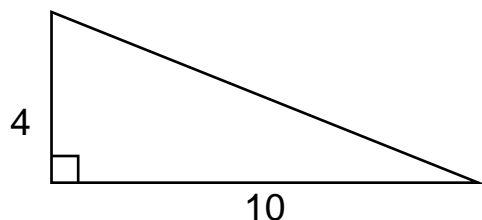


Answer Key

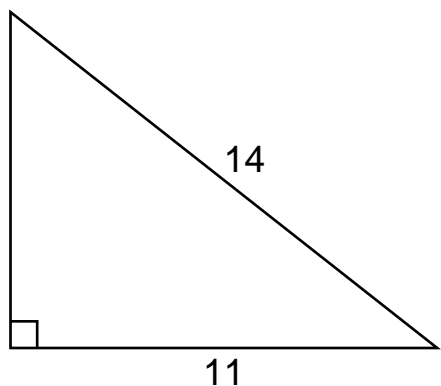
Find the length of the third side of each triangle.



$$\begin{aligned}7^2 + b^2 &= 17^2 \\49 + b^2 &= 289 \\b^2 &= 289 - 49 \\b^2 &= 240 \\b &= \sqrt{240} \\b &= 4\sqrt{15}\end{aligned}$$



$$\begin{aligned}4^2 + 10^2 &= c^2 \\16 + 100 &= c^2 \\116 &= c^2 \\\sqrt{116} &= c \\2\sqrt{29} &= c\end{aligned}$$



$$\begin{aligned}11^2 + b^2 &= 14^2 \\121 + b^2 &= 196 \\b^2 &= 196 - 121 \\b^2 &= 75 \\b &= \sqrt{75} \\b &= 5\sqrt{3}\end{aligned}$$