



a) $a^2 = c^2 - b^2$
 $a^2 = 18^2 - 13^2$
 $a^2 = 324 - 169$
 $a = \sqrt{155}$
 $a = 12.4$

b) $c^2 = a^2 + b^2$
 $c^2 = 9^2 + 12^2$
 $c^2 = 81 + 144$
 $c^2 = 225$
 $c = 15$

c) $a^2 = c^2 - b^2$
 $a^2 = 13^2 - 7^2$
 $a^2 = 169 - 49$
 $a^2 = 120$
 $a = 10.95$

d) $a^2 = c^2 - b^2$
 $a^2 = 20^2 - 12^2$
 $a^2 = 400 - 144$
 $a^2 = 256$
 $a = 16$

e) $a^2 = c^2 - b^2$
 $a^2 = 16^2 - 11^2$
 $a^2 = 256 - 121$
 $a^2 = 135$
 $a = 11.6$

f) $c^2 = a^2 + b^2$
 $c^2 = 12^2 + 18^2$
 $c^2 = 144 + 324$
 $c^2 = 468$
 $c = 21.6$

g) $c^2 = a^2 + b^2$
 $c^2 = 16^2 + 12^2$
 $c^2 = 256 + 144$
 $c^2 = 400$
 $c = 20$

h) $a^2 = c^2 - b^2$
 $a^2 = 23^2 - 18^2$
 $a^2 = 529 - 324$
 $a^2 = 205$
 $a = 14.3$

$$\begin{aligned}
 \text{i) } c^2 &= a^2 + b^2 \\
 c^2 &= 12^2 + 16^2 \\
 c^2 &= 144 + 256 \\
 \sqrt{c^2} &= \sqrt{400} \\
 c &= \underline{20}
 \end{aligned}$$

$$\begin{aligned}
 \text{j) } a^2 &= c^2 - b^2 \\
 a^2 &= 33^2 - 29^2 \\
 a^2 &= 1089 - 841 \\
 \sqrt{a^2} &= \sqrt{248} \\
 a &= \underline{15.7}
 \end{aligned}$$

$$\begin{aligned}
 \text{k) } c^2 &= a^2 + b^2 \\
 c^2 &= 12^2 + 10^2 \\
 c^2 &= 144 + 100 \\
 c^2 &= 144 + 100 \\
 \sqrt{c^2} &= \sqrt{244} \\
 c &= \underline{15.6}
 \end{aligned}$$

$$\begin{aligned}
 \text{l) } c^2 &= a^2 + b^2 \\
 c^2 &= 45^2 + 47^2 \\
 c^2 &= 2025 + 2209 \\
 \sqrt{c^2} &= \sqrt{4234} \\
 c &= \underline{65.1}
 \end{aligned}$$

$$\begin{aligned}
 \text{m) } a^2 &= c^2 - b^2 \\
 a^2 &= 6^2 - 5^2 \\
 a^2 &= 36 - 25 \\
 \sqrt{a^2} &= \sqrt{11} \\
 a &= \underline{3.3}
 \end{aligned}$$