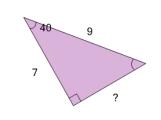


Math worksheet on 'Trigonometry - Rule of Cosines -Setup (Level 1)'. Part of a broader unit on 'Trigonometry - Solving Triangles'

Learn online: app.mobius.academy/math/units/trigonometry_solving_triangles/

Select the right formula to calculate the side length
indicated



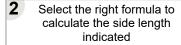
$$\sqrt[\mathbf{a}]{9^2+9^2-2\cdot 9\cdot 9\cdot cos(7)}$$

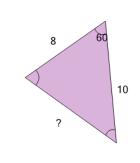
$$\sqrt{9^2 + 80^2 - 2 \cdot 9 \cdot 80 \cdot cos(40)}$$

$$\sqrt[\mathbf{c}]{9^2+7^2-2\cdot 9\cdot 7\cdot cos(9)}$$

$$\sqrt[\mathbf{d}]{9^2 + 7^2 - 2 \cdot 9 \cdot 7 \cdot cos(40)}$$

$$\sqrt{9^2 + 40^2 - 2 \cdot 9 \cdot 40 \cdot cos(7)}$$





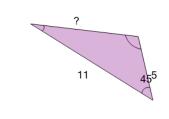
$$\sqrt[4]{10^2+120^2-2\cdot 10\cdot 120\cdot cos(60)}$$

$$\sqrt[6]{10^2 + 8^2 - 2 \cdot 10 \cdot 8 \cdot cos(60)}$$

$$\sqrt{10^2 + 60^2 - 2 \cdot 10 \cdot 60 \cdot cos(8)}$$

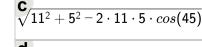
$$\sqrt[4]{10^2 + 8^2 - 2 \cdot 10 \cdot 8 \cdot cos(10)}$$

$$\sqrt[6]{10^2 + 10^2 - 2 \cdot 10 \cdot 10 \cdot cos(8)}$$



$$\sqrt[4]{11^2 + 5^2 - 2 \cdot 11 \cdot 5 \cdot cos(11)}$$

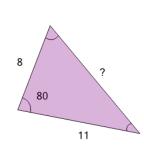
$$\sqrt{11^2 + 45^2 - 2 \cdot 11 \cdot 45 \cdot cos(5)}$$



$$\sqrt[\mathbf{d}]{11^2 + 11^2 - 2 \cdot 11 \cdot 11 \cdot cos(5)}$$

$$\sqrt[6]{11^2 + 90^2 - 2 \cdot 11 \cdot 90 \cdot cos(45)}$$

4 Select the right formula to calculate the side length indicated



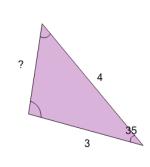
$$\sqrt[8]{8^2 + 80^2 - 2 \cdot 8 \cdot 80 \cdot cos(11)}$$

$$\sqrt{8^2 + 11^2 - 2 \cdot 8 \cdot 11 \cdot cos(80)}$$

$$\sqrt[\mathbf{c}]{8^2+11^2-2\cdot 8\cdot 11\cdot cos(8)}$$

$$\sqrt[6]{8^2 + 8^2 - 2 \cdot 8 \cdot 8 \cdot cos(11)}$$

$$\sqrt{8^2 + 160^2 - 2 \cdot 8 \cdot 160 \cdot cos(80)}$$



$$\sqrt[3]{3^2+3^2-2\cdot 3\cdot 3\cdot cos(4)}$$

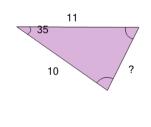
$$\sqrt[\mathbf{b}]{3^2+70^2-2\cdot 3\cdot 70\cdot cos(35)}$$

$$\sqrt[6]{3^2 + 35^2 - 2 \cdot 3 \cdot 35 \cdot cos(4)}$$

$$\sqrt[4]{3^2 + 4^2 - 2 \cdot 3 \cdot 4 \cdot cos(3)}$$

$$\sqrt[6]{3^2 + 4^2 - 2 \cdot 3 \cdot 4 \cdot cos(35)}$$

6 Select the right formula to calculate the side length indicated



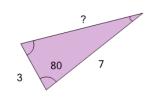
$$\sqrt[4]{11^2 + 10^2 - 2 \cdot 11 \cdot 10 \cdot cos(35)}$$

$$\sqrt[b]{11^2 + 11^2 - 2 \cdot 11 \cdot 11 \cdot cos(10)}$$

$$\sqrt[c]{11^2 + 10^2 - 2 \cdot 11 \cdot 10 \cdot cos(11)}$$

$$\sqrt[4]{11^2 + 35^2 - 2 \cdot 11 \cdot 35 \cdot cos(10)}$$

$$\sqrt[\mathbf{e}]{11^2 + 70^2 - 2 \cdot 11 \cdot 70 \cdot \cos(35)}$$



$$\sqrt[4]{3^2 + 160^2 - 2 \cdot 3 \cdot 160 \cdot cos(80)}$$

$$\sqrt[\mathbf{b}]{3^2+7^2-2\cdot 3\cdot 7\cdot cos(3)}$$

$$\sqrt[\mathbf{C}]{3^2+80^2-2\cdot 3\cdot 80\cdot cos(7)}$$

$$\sqrt[\mathbf{d}]{3^2+3^2-2\cdot 3\cdot 3\cdot cos(7)}$$

$$\sqrt[6]{3^2 + 7^2 - 2 \cdot 3 \cdot 7 \cdot cos(80)}$$