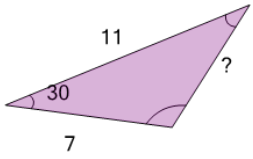
Math worksheet on *'Trigonometry - Rule of Cosines - Setup (Level 1)'*. Part of a broader unit on *'Trigonometry - Law of Sines, Cosines - Intro'*

Learn online:

app.mobius.academy/math/units/trigonometry_law_of_sines_cosines_intro/

1 Select the right formula to calculate the side length indicated



a $\sqrt{11^2 + 7^2 - 2 \cdot 11 \cdot 7 \cdot cos(30)}$

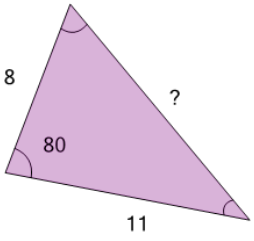
b $\sqrt{11^2 + 30^2 - 2 \cdot 11 \cdot 30 \cdot cos(7)}$

c $\sqrt{11^2 + 11^2 - 2 \cdot 11 \cdot 11 \cdot cos(7)}$

d $\sqrt{11^2 + 60^2 - 2 \cdot 11 \cdot 60 \cdot cos(30)}$

e $\sqrt{11^2 + 7^2 - 2 \cdot 11 \cdot 7 \cdot cos(11)}$

2 Select the right formula to calculate the side length indicated



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

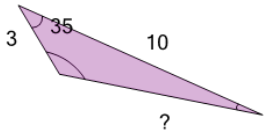
b $\sqrt{8^2 + 11^2 - 2 \cdot 8 \cdot 11 \cdot cos(8)}$

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

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

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

3 Select the right formula to calculate the side length indicated



a $\sqrt{10^2 + 3^2 - 2 \cdot 10 \cdot 3 \cdot cos(10)}$

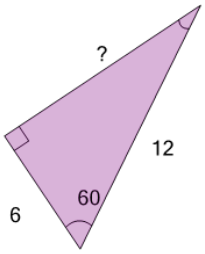
b $\sqrt{10^2 + 3^2 - 2 \cdot 10 \cdot 3 \cdot cos(35)}$

c $\sqrt{10^2 + 10^2 - 2 \cdot 10 \cdot 10 \cdot cos(3)}$

d $\sqrt{10^2 + 35^2 - 2 \cdot 10 \cdot 35 \cdot cos(3)}$

e $\sqrt{10^2 + 70^2 - 2 \cdot 10 \cdot 70 \cdot cos(35)}$

4 Select the right formula to calculate the side length indicated



a $\sqrt{6^2 + 6^2 - 2 \cdot 6 \cdot 6 \cdot cos(12)}$

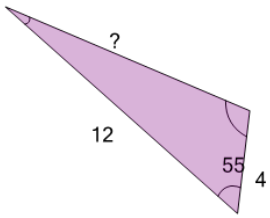
b $\sqrt{6^2 + 120^2 - 2 \cdot 6 \cdot 120 \cdot cos(60)}$

c $\sqrt{6^2 + 12^2 - 2 \cdot 6 \cdot 12 \cdot cos(6)}$

d $\sqrt{6^2 + 12^2 - 2 \cdot 6 \cdot 12 \cdot cos(60)}$

e $\sqrt{6^2 + 60^2 - 2 \cdot 6 \cdot 60 \cdot cos(12)}$

5 Select the right formula to calculate the side length indicated



a $\sqrt{12^2 + 55^2 - 2 \cdot 12 \cdot 55 \cdot cos(4)}$

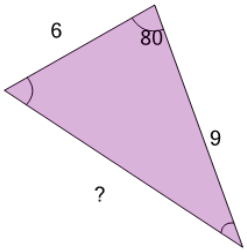
b $\sqrt{12^2 + 12^2 - 2 \cdot 12 \cdot 12 \cdot cos(4)}$

c $\sqrt{12^2 + 110^2 - 2 \cdot 12 \cdot 110 \cdot cos(55)}$

d $\sqrt{12^2 + 4^2 - 2 \cdot 12 \cdot 4 \cdot cos(12)}$

e $\sqrt{12^2 + 4^2 - 2 \cdot 12 \cdot 4 \cdot cos(55)}$

6 Select the right formula to calculate the side length indicated



a $\sqrt{9^2 + 6^2 - 2 \cdot 9 \cdot 6 \cdot cos(80)}$

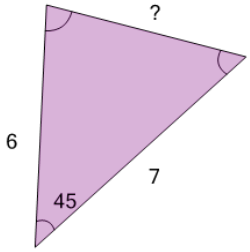
b $\sqrt{9^2 + 9^2 - 2 \cdot 9 \cdot 9 \cdot cos(6)}$

c $\sqrt{9^2 + 6^2 - 2 \cdot 9 \cdot 6 \cdot cos(9)}$

d $\sqrt{9^2 + 160^2 - 2 \cdot 9 \cdot 160 \cdot cos(80)}$

e $\sqrt{9^2 + 80^2 - 2 \cdot 9 \cdot 80 \cdot cos(6)}$

7 Select the right formula to calculate the side length indicated



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

b $\sqrt{6^2 + 6^2 - 2 \cdot 6 \cdot 6 \cdot cos(7)}$

c $\sqrt{6^2 + 45^2 - 2 \cdot 6 \cdot 45 \cdot cos(7)}$

d $\sqrt{6^2 + 7^2 - 2 \cdot 6 \cdot 7 \cdot cos(45)}$

e $\sqrt{6^2 + 7^2 - 2 \cdot 6 \cdot 7 \cdot cos(6)}$