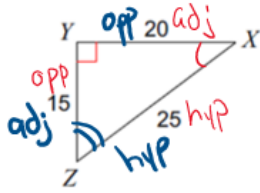


Find the value of the sine, cosine, and tangent of both acute angles in each triangle.

1)

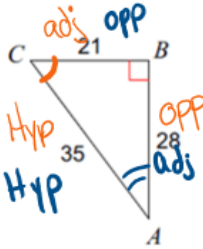


$$\begin{aligned} \sin(x) &= \frac{15}{25} = \frac{3}{5} & \sin(z) &= \frac{20}{25} = \frac{4}{5} \\ \cos(x) &= \frac{20}{25} = \frac{4}{5} & \cos(z) &= \frac{15}{25} = \frac{3}{5} \\ \tan(x) &= \frac{15}{20} = \frac{3}{4} & \tan(z) &= \frac{20}{15} = \frac{4}{3} \end{aligned}$$



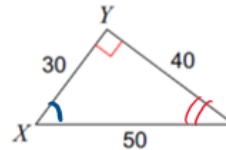
$$\begin{aligned} \sin(x) &= \frac{36}{45} = \frac{4}{5} & \sin(z) &= \frac{27}{45} = \frac{3}{5} \\ \cos(x) &= \frac{27}{45} = \frac{3}{5} & \cos(z) &= \frac{36}{45} = \frac{4}{5} \\ \tan(x) &= \frac{36}{27} = \frac{4}{3} & \tan(z) &= \frac{27}{36} = \frac{3}{4} \end{aligned}$$

3)



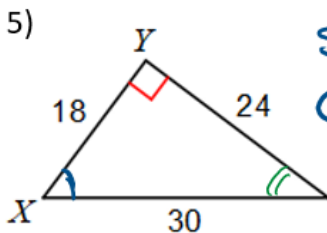
$$\begin{aligned} \sin(c) &= \frac{28}{35} = \frac{4}{5} & \sin(A) &= \frac{21}{35} = \frac{3}{5} \\ \cos(c) &= \frac{21}{35} = \frac{3}{5} & \cos(A) &= \frac{28}{35} = \frac{4}{5} \\ \tan(c) &= \frac{28}{21} = \frac{4}{3} & \tan(A) &= \frac{21}{28} = \frac{3}{4} \end{aligned}$$

4)



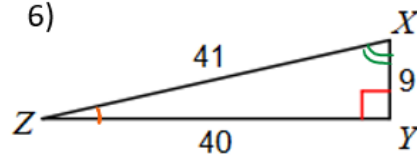
$$\begin{aligned} \sin(x) &= \frac{40}{50} = \frac{4}{5} & \sin(z) &= \frac{30}{50} = \frac{3}{5} \\ \cos(x) &= \frac{30}{50} = \frac{3}{5} & \cos(z) &= \frac{40}{50} = \frac{4}{5} \\ \tan(x) &= \frac{40}{30} = \frac{4}{3} & \tan(z) &= \frac{30}{40} = \frac{3}{4} \end{aligned}$$

5)



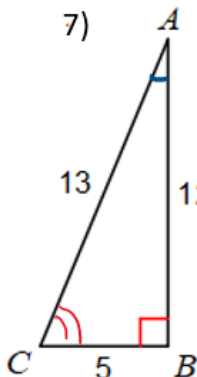
$$\begin{aligned} \sin(x) &= \frac{18}{30} = \frac{3}{5} & \sin(z) &= \frac{24}{30} = \frac{4}{5} \\ \cos(x) &= \frac{24}{30} = \frac{4}{5} & \cos(z) &= \frac{18}{30} = \frac{3}{5} \\ \tan(x) &= \frac{18}{24} = \frac{3}{4} & \tan(z) &= \frac{24}{18} = \frac{4}{3} \end{aligned}$$

6)



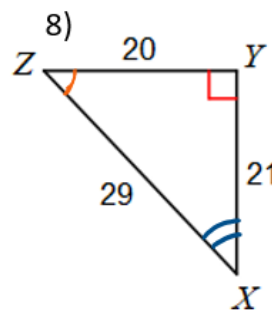
$$\begin{aligned} \sin(z) &= \frac{9}{41} & \sin(x) &= \frac{40}{41} \\ \cos(z) &= \frac{40}{41} & \cos(x) &= \frac{9}{41} \\ \tan(z) &= \frac{9}{40} & \tan(x) &= \frac{40}{9} \end{aligned}$$

7)



$$\begin{aligned} \sin(A) &= \frac{5}{13} & \sin(C) &= \frac{12}{13} \\ \cos(A) &= \frac{12}{13} & \cos(C) &= \frac{5}{13} \\ \tan(A) &= \frac{5}{12} & \tan(C) &= \frac{12}{5} \end{aligned}$$

8)



$$\begin{aligned} \sin(z) &= \frac{21}{29} & \sin(x) &= \frac{20}{29} \\ \cos(z) &= \frac{20}{29} & \cos(x) &= \frac{21}{29} \\ \tan(z) &= \frac{21}{20} & \tan(x) &= \frac{20}{21} \end{aligned}$$