

KEY

II. Determine whether the Law of Cosines or the Law of Sines is the best choice.

- State whether the Law of Sines or Law of
 Cosines is the best choice to solve for x for
 the given figure. Substitute the values into
 the appropriate formula (do not solve).



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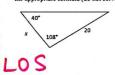
LOS

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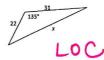
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For ΔHJK , f = 31, $m \angle H = 132^\circ$, $m \angle J = 21^\circ$, and $m \angle K = 27^\circ$. Find h to the nearest whole number.

State whether the Law of Sines or Law of

For $\triangle ABC$ find the length of b to the nearest hundredth, given $\alpha = 17$, c = 34, and $m \angle B = 94^a$.

10. State whether the Law of Sines or Law of Cosines is the best choice to solve for x for the given figure. Substitute the values into the appropriate formula (do not solve).

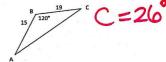
For ∆XYZ find the length of m∠Y to the nearest whole degree, given x = 6, y = 9, and z = 12.

III. Use the Law of Sines and Law of Cosines to find missing dimensions.

11. Find the missing dimensions of the triangle below. Round your answers to the nearest



12. Find the m∠C to the nearest whole degree.

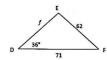




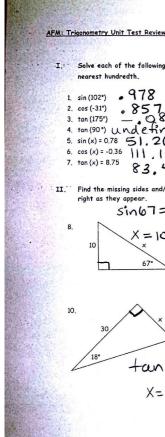
$$b = 91$$

 $C = 25^{\circ}$

14. Find the f to the nearest whole number.



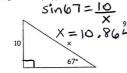
f = (03 or 11





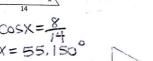
- - 1. sin (102°)
 - 2. cos (-31°)
 - 3. tan (175°)
 - 4. tan (90°) UN
 - 5. sin(x) = 0.78 51.261° 6. cos(x) = -0.36 111,100° 7. ton(x) = 8.75

 - 7. tan (x) = 8.75
- Find the missing sides and/or angles using SOH CAH TOA. **Angles are right as they appear.

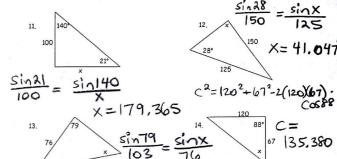












15. The angle of elevation to the top of the Empire State Building in New York is 11° from a point Building in feet.

taux = 96 X= 38.66°

- 120 17. A man is lying on the beach, flying a kite. He holds the end of the kite string at ground level and estimates the angle of elevation of the kite to be 50°. If the string is 450 feet long, how





$$tan 42.5 = \frac{2.12}{x}$$
 $x = 2.314$