



Students, draw anywhere on this slide!

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Inverse Trigonometric Ratios

Let ∠A be an acute angle.



Inverse Tangent If $\tan A = x$, then $\tan^{-1} x = m \angle A$. $\tan^{-1} \frac{BC}{AC} = m \angle A$

$$\tan^{-1}\frac{BC}{AC} = m \angle A$$

Inverse Sine If
$$\sin A = y$$
, then $\sin^{-1} y = m \angle A$.

$$\sin^{-1}\frac{BC}{AB} = m\angle A$$

Inverse Cosine If
$$\cos A = z$$
, then $\cos^{-1} z = m \angle A$.

$$\cos^{-1} \frac{AC}{AB} = m \angle A$$



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Your school is building a raked stage. The stage will be 30 feet long from front to back, with a total rise of 2 feet. You want the rake (angle of elevation) to be 5° or less for safety. Is the raked stage within your desired range?



3/1/22, 4:39 PM OneNote

