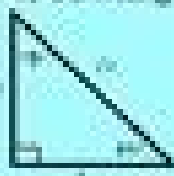
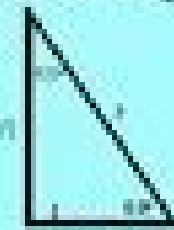


Basic Trigonometric Identities				Cofunction Identities							
$\sin \theta = \frac{1}{\csc \theta}$	$\cos \theta = \frac{1}{\sec \theta}$	$\tan \theta = \frac{1}{\cot \theta}$	$\sec \theta = \frac{\sin \theta}{\cos \theta}$	$\sin \theta = \cos (90^\circ - \theta)$	$\sec \theta = \csc (90^\circ - \theta)$	$\tan \theta = \cot (90^\circ - \theta)$					
$\csc \theta = \frac{1}{\sin \theta}$	$\sec \theta = \frac{1}{\cos \theta}$	$\cot \theta = \frac{1}{\tan \theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$	$\cos \theta = \sin (90^\circ - \theta)$	$\csc \theta = \sec (90^\circ - \theta)$	$\cot \theta = \tan (90^\circ - \theta)$					
Pythagorean Identities				Odd/Even Identities							
$\sin^2 \theta + \cos^2 \theta = 1$	$1 + \cot^2 \theta = \csc^2 \theta$	$\sec^2 \theta + 1 = \tan^2 \theta$		$\sin (-\theta) = -\sin \theta$	$\cos (-\theta) = \cos \theta$	$\tan (-\theta) = -\tan \theta$					
$\sec^2 \theta = 1 + \tan^2 \theta$	$\cot^2 \theta = \csc^2 \theta - 1$	$\tan^2 \theta = \sec^2 \theta - 1$		$\csc (-\theta) = -\csc \theta$	$\sec (-\theta) = \sec \theta$	$\cot (-\theta) = -\cot \theta$					
$\cos^2 \theta + 1 = \sec^2 \theta$	$1 - \cot^2 \theta = \csc^2 \theta$	$1 - \tan^2 \theta = \sec^2 \theta$		Sum and Difference Identities							
Double-Angle Identities				$\sin(A + B) = \sin A \cos B + \cos A \sin B$ $\sin(A - B) = \sin A \cos B - \cos A \sin B$ $\cos(A + B) = \cos A \cos B - \sin A \sin B$ $\cos(A - B) = \cos A \cos B + \sin A \sin B$							
$\sin 2A = 2 \sin A \cos A$	$\cos 2A = \cos^2 A - \sin^2 A$										
$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$	$\cos 2A = 1 - 2 \sin^2 A$										
	$\cos 2A = 2 \cos^2 A - 1$			More Sum and Difference Identities							
Half-Angle Identities				$\sin A + \sin B = 2 \sin \frac{A+B}{2} \cos \frac{A-B}{2}$	$\cos A + \cos B = 2 \cos \frac{A+B}{2} \cos \frac{A-B}{2}$						
$\sin \frac{x}{2} = \pm \sqrt{\frac{1 - \cos x}{2}}$	$\cos \frac{x}{2} = \pm \sqrt{\frac{1 + \cos x}{2}}$			$\sin A - \sin B = 2 \cos \frac{A+B}{2} \sin \frac{A-B}{2}$	$\cos A - \cos B = -2 \sin \frac{A+B}{2} \sin \frac{A-B}{2}$						
Product Identities				Area of Triangle		45-45-90 Triangle 					
$\sin A \cos B = \frac{1}{2} [\sin(A + B) + \sin(A - B)]$				$\frac{1}{2} bc \sin A$	Converting between Degrees and Radians to radians: $\frac{180^\circ}{\pi \text{ radians}}$ to radians: $\frac{180^\circ}{\pi \text{ radians}}$						
$\cos A \sin B = \frac{1}{2} [\sin(A + B) - \sin(A - B)]$				$\frac{1}{2} ab \sin C$							
$\sin A \sin B = \frac{1}{2} [\cos(A - B) - \cos(A + B)]$				$\frac{1}{2} ac \sin B$		30-60-90 Triangle 					
$\cos A \cos B = \frac{1}{2} [\cos(A + B) + \cos(A - B)]$				Complementary Angles Sum to 90° C + A			All Students Take Calculus <table><tr><td>Sin +</td><td>All +</td></tr><tr><td>Tan +</td><td>Cos +</td></tr></table>	Sin +	All +	Tan +	Cos +
Sin +	All +										
Tan +	Cos +										
Law of Sines (known pair) $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$				Supplementary Angles Sum to 180° S + A							
Law of Cosines (no known pair) $a^2 = b^2 + c^2 - 2bc \cos A$ $b^2 = a^2 + c^2 - 2ac \cos B$ $c^2 = a^2 + b^2 - 2ab \cos C$											

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web sep 12 2022 the half life of the nuclei and thus the material is t1 2 693 t 1 2 693 million years 35 a the decay constant is λ 1 99 10 5 s 1 λ 1 99 10 5 s 1 b since strontium 91 has an atomic mass of 90 90 g

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web nuclear equations represent the reactants and products in radioactive decay nuclear fission or nuclear fusion instead of chemical equations where it shows the different number of elements is conserved in a reaction in a nuclear reaction the atomic mass and proton number are conserved