

## Chapter 6 Applications Of Trigonometric Functions

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Chapter 6: Trigonometric Identities and Applications ...  
232 Chapter 6 Applications of Trigonometry Section 6.1 Vectors in the Plane Exploration 1 1. Use the HMT rule, which states that if an arrow has initial point and terminal point , it represents the vector  $\vec{x} = x_2 - x_1, y_2 - y_1$ . If the initial point is (2, 3) and the terminal point is (7, 5), the vector is  $\langle 5, 2 \rangle$ .

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Chapter 6 u v u v u v u v Additional Topics in Trigonometry 6.1 Law of Sines 6.2 Law of Cosines 6.3 Vectors in the Plane 6.4 Vectors and Dot Products 6.5 Trigonometric Form of a Complex Number Selected Applications Triangles and vectors have many real-life applications. The applications listed below represent a small sample of the applications in this chapter.

CHAPTER 6 Trigonometry  
Chapter 8 Applications of Trigonometric Functions Section 8.1 221. a  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  b  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  c  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  d  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  e  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  f  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  g  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  h  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  i  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  j  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  k  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  l  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  m  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  n  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  o  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  p  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  q  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  r  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  s  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  t  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  u  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  v  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  w  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$  x  $\sin^{-1} \frac{1}{\sqrt{2}} = 45^\circ$  or  $135^\circ$  y  $\sin^{-1} \frac{1}{2} = 30^\circ$  or  $150^\circ$  z  $\sin^{-1} \frac{\sqrt{3}}{2} = 60^\circ$  or  $120^\circ$

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CHAPTER 6 Trigonometry Section 6.1 Angles and Their Measure 532 You should know the following basic facts about angles, their measurement, and their applications. Types of Angles: (a) Acute: Measure between 0 and 90°. (b) Right: Measure 90°. (c) Obtuse: Measure between 90 and 180°. (d) Straight: Measure 180°.

Chapter 9 - Triangle Trigonometry - Mrs. Bisgaard's Class  
Chapter 6: Applications of Trigonometric Functions Section 6.1 Right-Triangle Trigonometry A. Trigonometric Functions and Ratios Ex. 1: Find the exact values for the six trigonometric functions of the angle  $\theta$  above.

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6.04 Double Angle and Half Angle Formulas of Trigonometric Functions Resource ID: SE121047 Grade Range: 9-12 By: Instructional Materials Subject: Math In this video, students will learn double and half angle formulas, and how they are derived, and will apply them to various problems.

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