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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  $\vec{v} = \langle x_2 - x_1, y_2 - y_1 \rangle$ . If the initial point is (2, 3) and the terminal point is (7,5), the vector is  $\langle 7-2, 5-3 \rangle = \langle 5, 2 \rangle$ .

CHAPTER 6 Trigonometry Section 6.1 An-

gles 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 .

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6.3 Properties of the Trigonometric Functions - 6.3 Assess Your Understanding 6.4 Graphs of the Sine and Cosine Functions - 6.4 Assess Your Understanding 6.5 Graphs of the Tangent, Cotangent, Cosecant, and Secant Functions - 6.5 Assess Your Understanding

### Chapter 6: Trigonometric Identities and Applications ...

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234 Chapter 6 Applications of Trigonometry Actual direction:  $\theta = 180^\circ + \tan^{-1} \frac{112.16}{337.84}$ , so the bearing is about  $337.84^\circ$ . 44. (a) A bearing of  $170^\circ$  corresponds to a direction angle of  $-80^\circ$ :  $v = 460 \cos(-80^\circ)$ ,  $\sin(-80^\circ) = \frac{y}{460}$ ,  $y = 460 \sin(-80^\circ) = -453.01$ . (b) The wind bearing of  $200^\circ$  corresponds to a direction angle of

-110°. The wind vector is  $w=80$   
 Chapter 8 Applications of Trigonometric Functions Section 8.1 221.  $a = - = - = = 53$  259 164 2.  $10$  1  $\tan$  , 0 90 2 1  $\tan$  26.6 2  $\theta$   $\theta - = < < ^\circ = \approx 3$ . 1 1  $\sin$  , 0 90 2 1  $\sin$  30 2  $\theta$   $\theta - = < < ^\circ = = ^\circ$  4. False;  $\sin 52 \cos 38^\circ = ^\circ$  5. True 6. angle of elevation 7. True 8. False  $\sin 9$ . opposite = 5; adjacent = 12; hypotenuse = ? (hypotenuse) 5 12 16922 2 hypotenuse 169 13 = + = = = opp hyp 513  $\sin$   $\csc$   
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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.

### 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  $^\circ x$  2-x 1, y 2-y 1 $\rightarrow$ . If the initial point is (2, 3) and the terminal point is (7,5), the vector is  $^\circ 7-2, 5-3 \rightarrow = ^\circ 5, 2 \rightarrow$ . 2.

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234 Chapter 6 Applications of Trigonometry Actual direction:  $^\circ = 180^\circ + \tan^{-1}$  112.16 $^\circ$ , so the bearing is about 337.84 $^\circ$ . 44. (a) A bearing of 170 $^\circ$  corresponds to a direction angle of -80 $^\circ$ :  $v = 460^\circ \cos(-80^\circ)$ ,  $\sin(-80^\circ) \rightarrow \neq 79.88$ , -453.01 $\rightarrow$ . (b) The wind bearing of 200 $^\circ$  corresponds to a direction angle of -110 $^\circ$ . The wind vector is  $w=80$

### Chapter 6 Applications of Tri-

**gonometry**

234 Chapter 6 Applications of Trigonometry  
 Actual direction:  $\theta = 180^\circ + \tan^{-1} \frac{1}{2} = 112.16^\circ$ , so the bearing is about  $337.84^\circ$ .  
 44. (a) A bearing of  $170^\circ$  corresponds to a direction angle of  $-80^\circ$ :  
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 $-453.01$ . (b) The wind bearing of  $200^\circ$  corresponds to a direction angle of  $-110^\circ$ . The wind vector is  $w = 80$

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Section 6: Trigonometric Identities and Applications  
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 6.01 Trigonometric Identities • Precalculus (5)(M) • Precalculus (5)(N)  
 6.02 Solving Trigonometric Equations • Precalculus (5)(M) • Precalculus (5)(N)

**Section 6: Trigonometric Identities and Applications**

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  $90^\circ$ . (b) Right: Measure  $90^\circ$ . (c) Obtuse: Measure between  $90$  and  $180^\circ$ . (d) Straight: Measure  $180^\circ$ .

**CHAPTER 6 Trigonometry**

Chapter 8 Applications of Trigonometric Functions Section 8.1 221.  
 a.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
 b.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
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 p.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
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 t.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
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 v.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
 w.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
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 y.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$   
 z.  $\sin^{-1} \frac{1}{2} = 30^\circ$ ,  $\tan^{-1} \frac{1}{\sqrt{3}} = 30^\circ$

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 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.

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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.

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