

Pre-Calculus Unit #4: Additional Topics in Trigonometry (Ch 6)

Law of Sines/Cosines - I can solve oblique triangles and find their area using the Law of Sines and/or Cosines.

Vectors - I can make calculations with vectors in component form and find one's magnitude and direction.

Day	Lesson	Assignment
Day 1 Law of Sines/Cosines	6.1 Law of Sines I can use the law of sines to solve a triangle. Khan: Solve triangles using the law of sines	p. 434: 3, 7, 47-53 odds <u>Additional</u> Solve $A = 24^\circ$, $B = 55^\circ$, $c = 14$ Solve $C = 124^\circ$, $B = 15^\circ$, $a = 7$
Day 2 Law of Sines/Cosines	6.1 Law of Sines I can use the law of sines to solve a triangle (if possible) from ASS. Khan:	p. 434: 15-19 odds, 29-33 odds Advanced: 31, 33
Day 3 Law of Sines/Cosines	6.1 Law of Sines I can find the area of an oblique triangle. Khan: General triangle word problems	p. 434: 23-27 odds, 35, 37 Advanced: 35, 37
Day 4 Law of Sines/Cosines	6.2 Law of Cosines I can use the law of cosines to solve a triangle. Khan: Solve triangles using the law of cosines	p. 441: 1-7 odds, 11, 13, 45-49 odds
Day 5 Law of Sines/Cosines	6.2 Law of Cosines I can use Heron's formula to find the area of a triangle. Khan:	p. 441: 19-31 odds Advanced: 25-31 odds
Day 6	Review Day	Study for Assessment p. 422: 65-116
Day 7	Assessment 8: Using Trig Formulas (#2) & Law of Sines/Cosines (#1)	Assessment
Day 8 Vectors	6.3 Vectors in the Plane I can find the components of a vector. Khan: Components of vectors, vector components from magnitude & direction	p. 453: 1-19 odds, 95, 97

Day 9 Vectors	6.3 Vectors in the Plane I can find the magnitude and direction of vectors. Khan: Magnitude of vectors, direction of vectors	p. 453: 21-31 odds, 37-41 odds, 99, 101
Day 10 Vectors	6.3 Vectors in the Plane I can convert vectors from magnitude/direction to component form. Khan: Add & subtract vectors, graphically add & subtract vectors	p. 454: 51-67 odds Advanced: 65, 67
Day 11 Vectors	6.3 Vectors in the Plane I can solve word problems with vectors. Khan: Vector word problems	p. 454: 69, 73, 74, 81 Advanced: All of them
Day 12	Review Day	Study for Assessment p 479: 1-36
Day 13	Assessment 9: Law of Sines/Cosines (#2)	Assessment