

Advanced Algebra

Unit 9- Vectors and Bearings

Assignment # 13

- 1) A plane is traveling at 312mph with a bearing of 32. There is a 25mph wind blowing from the south. What is the final bearing and the ground speed of the plane?
 - 2) A plane is traveling at 418mph with a bearing of 240. There is a 32mph wind blowing from the north. What is the final bearing and the ground speed of the plane?
 - 3) A plane is traveling at 512mph with a bearing of 320. There is a 45mph wind blowing from the south. What is the final bearing and the ground speed of the plane?
 - 4) A plane is traveling at 500mph with a bearing of 130. There is a 52mph wind blowing from the north. What is the final bearing and the ground speed of the plane?
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Alternate Interior Angles are Congruent

Law of Cosines

Law of Sines

- 5) A plane is traveling at 312mph with a bearing of 230. There is a 20mph wind blowing from the East. What is the final bearing and the ground speed of the plane?
 - 6) A plane is traveling at 450mph with a bearing of 300. There is a 25mph wind blowing from the North. What is the final bearing and the ground speed of the plane?
 - 7) A plane is traveling at 300mph with a bearing of 240. There is a 45mph wind blowing from the North. What is the final bearing and the ground speed of the plane?
 - 8) A plane is traveling at 416mph with a bearing of 30. There is a 23mph wind blowing from the North. What is the final bearing and the ground speed of the plane?
 - 9) A plane is traveling at 418mph with a bearing of 240. There is a 32mph wind blowing from the south. What is the final bearing and the ground speed of the plane?
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- 11) A plane is traveling at 210mph with a bearing of 40. There is a 32mph wind blowing from the Northwest (45). What is the final bearing and the ground speed of the plane?
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