Reflection and Self-Assessment

Completion: Circle the statement that best describes the completion of this practice.

- I completed every question on the practice.
- I did not complete some questions on the practice because:

Answer Checking: Circle the statement that best describes how you checked your answers

- I checked all my answers against the key at the back and corrected any that were incorrect.
- I did not check all my answers and correct any mistakes because:

Online Worked Solution: Circle the statement that best describes how you used the online worked solutions.

- I did not use the online worked solution at all.
- I used the online solution to understand some questions I got incorrect.
- I used the online solution to help me learn how to answer some questions.

Confidence: Circle the statement that best describes your confidence in answering questions of this type in the future.

- I am confident I can answer nearly any question of this type correctly without using notes or other assistance.
- I am confident I can answer **MOST** questions of this type correctly without using notes or other assistance.
- I am **NOT** confident I can answer most questions of this type correctly without using notes or other assistance.

Time: Circle the statement below that best describes the total amount of time you spent actively working on this practice:

Less than an hour	Between one and	Between two and	Between three	More than four
	two hours	three hours	and four hours	hours

Use Sine Law to solve the following:



AC:_____



EF:_____

Name:_____



HI:_____

Name:_____

Use Cosine Law to solve the following:



Name:_____





∠D:____

∠*F*:_____

∠*E*:_____

Name:___

6. Solve the following triangle:



7. Solve the following triangle:



AC:____

Name:____

 A force of 56 N, 23° above the horizontal and a force of 29 N, 72° below the horizontal are applied to an object. What is the net force acting on the object?



9. The net force acting on an object is 255 N, 16° North of East. There is a 220 N force acting 19° West of South and another force acting on the object. What is the magnitude (don't worry about direction) of the second force?

10. A plane is flying with airspeed of 216 m/s due East, a 30.0 m/s wind is blowing at 28° N of W. What is the resultant velocity of the plane (magnitude and direction)?

11. A plane with airspeed of 180m/s, pointed due North is deflected from its bearing by 25° to the East by a strong wind. Due to the wind the plane travels with a ground speed of 150 m/s. What is the speed and direction of the wind?

12. A boat which can travel at 3.3 m/s in calm water is attempting to cross an 85 m wide river which flows at 2.5m/s. It takes 28 seconds for the boat to cross the river, and when it reaches the other side is it is 65 m downstream. What direction was the boat pointed in?

20° rees
rees
3°
,0
n/s, th of