TWO-DIMENSIONAL FORCES AND TORQUE - PRACTICE TEST | NEW BRUNSWICK PHYSICS 121-122 · UNIT A · 10 QUESTIONS

Two-Dimensional Forces and Torque — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Two perpendicular forces of 6 newtons and 8 newtons act on an object. The magnitude of the resultant force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Two perpendicular forces of 8 newtons and 15 newtons act on an object. The resultant in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A couple consists of two equal and opposite forces that produce**

- A translation only
- B no effect
- C linear acceleration
- D rotation only

Understand It with Pulse | Flag a mistake

4 **Torque is largest when the force is applied**

- A parallel to the lever arm
- B perpendicular to the lever arm
- C at the pivot
- D along the lever arm

Understand It with Pulse | Flag a mistake

5 **Two forces of 10 newtons and 10 newtons act at right angles. The resultant in newtons to one decimal place is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **Two perpendicular forces are combined using the**

A Pythagorean theorem

B sine law only

C cosine law only

D addition of magnitudes

Understand It with Pulse | Flag a mistake

7 **Weight is a force due to**

A friction

B tension

C normal force

D gravity

Understand It with Pulse | Flag a mistake

8 **Two perpendicular forces of 5 newtons and 12 newtons act on an object. The magnitude of the resultant force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **Two perpendicular forces of 20 newtons and 21 newtons act on an object. The resultant in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Two perpendicular forces of 9 newtons and 12 newtons act on an object. The magnitude of the resultant force in newtons is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	10	**5.**	14.14	**9.**	29
2.	17	**6.**	A	**10.**	15
3.	D	**7.**	D		
4.	B	**8.**	13		

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