NOVA SCOTIA PHYSICS 12 · UNIT A · 5 QUESTIONS

Two-Dimensional Motion — 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 **Cliff face showing clear horizontal layers of sedimentary rock. A velocity of 200 metres per second acts at an angle whose sine is 0.6 and cosine is 0.8. The horizontal component, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A velocity of 100 metres per second acts at an angle whose sine is 0.6 and cosine is 0.8. The horizontal component, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

3 **A velocity of 200 metres per second acts at an angle whose sine is 0.8 and cosine is 0.6. The vertical component, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A velocity of 75 metres per second acts at an angle whose sine is 0.8 and cosine is 0.6. The vertical component, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A projectile is launched at 45 degrees with speed 40 metres per second . Using g = 10 metres per second squared , the horizontal range , in metres , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 160
2. 80
3. 160
4. 60
5. 160

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