Two-Dimensional Motion: Projectiles and Circular 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 projectile has horizontal velocity 25 metres per second and flight time 4 seconds. Its range in metres is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A projectile rises with vertical velocity 40 metres per second . Using g = 10 , the time to maximum height in seconds is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An object moves in a circle of radius 2 metres at speed 6 metres per second. Its centripetal acceleration is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A mass of 4 kilograms moves in a circle of radius 2 metres at speed 6 metres per second. The centripetal force in newtons is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A wheel of radius 0.4 metres completes 5 revolutions. The rim distance in metres to one decimal place is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 100
2. 4
3. 18
4. 72
5. 12.6

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