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Crash Course Physics #3: Integrals

Name: _____ Date: _____

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1. An _____ is the area between a curve and the horizontal axis on a graph.
2. Integrals are considered the inverse of _____.
3. _____ is the integral of acceleration.
4. Position is the integral of _____.
5. You can think of the area under a curve as made of infinitely tiny _____.
6. The _____ Rule can be used in reverse to find some integrals.
7. The integral of $2t$ is _____.
8. The integral of $\cos(x)$ is _____.
9. The integral of e^x is _____.
10. When finding an integral, the added constant is represented by the letter _____.
11. A _____ is a number or placeholder that doesn't change.
12. If an initial value is known, you can solve for the value of _____ in an integral.
13. The displacement curve equation is found by integrating the equation for _____.
14. The _____ equation $x = \frac{1}{2}at^2 + v_0t + x_0$ results from applying two integrals.
15. The force that causes objects to accelerate at 9.81 m/s^2 is _____.

Crash Course Physics #3: Integrals KEY

1. An **integral** is the area between a curve and the horizontal axis on a graph.
2. Integrals are considered the inverse of **derivatives**.
3. **Velocity** is the integral of acceleration.
4. Position is the integral of **velocity**.
5. You can think of the area under a curve as made of infinitely tiny **rectangles**.
6. The **Power** Rule can be used in reverse to find some integrals.
7. The integral of $2t$ is t^2 .
8. The integral of $\cos(x)$ is **$\sin(x)$** .
9. The integral of e^x is **e^x** .
10. When finding an integral, the added constant is represented by the letter **C**.
11. A **constant** is a number or placeholder that doesn't change.
12. If an initial value is known, you can solve for the value of **C** in an integral.
13. The displacement curve equation is found by integrating the equation for **velocity**.
14. The **kinematic** equation $x = \frac{1}{2}at^2 + v_0t + x_0$ results from applying two integrals.
15. The force that causes objects to accelerate at 9.81 m/s^2 is **gravity**.

15 Questions

Answer Key Included

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