Worksheet: Kinematics Part 2 - v$_f$

$$v_{final} = v_{initial} + at$$

NAME:

1. Read the following problem
2. Highlight your "proof" for assigning variables
3. List the givens
4. Solve
5. Write your answer with the proper units

Georgia is jogging with a velocity of 4.00 m/s when she accelerates at 2.00 m/s^2 for 3.00 seconds. How fast is Georgia running now? - 3 pts -

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- Initial velocity - m/s, starting from rest, initially/beginning, how fast...
- Final velocity - m/s, comes to a stop/rest, finally/end, how fast...
- Acceleration - m/s^2
- Time - s, how long...

Givens	Work

Answer

Worksheet: Kinematics Part 2 - v$_f$ $v_{final} = v_{initial} + at$

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4. Solve
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A cat is moving at 18.0 m/s when it accelerates at 4 m/s^2 for 2 seconds. What is his new velocity? - 3 pts -

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- Initial velocity - m/s, starting from rest, initially/beginning, how fast...
- Final velocity - m/s, comes to a stop/rest, finally/end, how fast...
- Acceleration - m/s^2
- Time - s, how long...

Givens	Work

Answer

Worksheet: Kinematics Part 2 - v$_f$ $V_{final} = V_{initial} + at$

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A car traveling initially at 3.12 m/s accelerates at the rate of 2.02 m/s^2 for a time of 6.52 s. What is its velocity at the end of the acceleration? - 3 pts -

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- Initial velocity - m/s, starting from rest, initially/beginning, how fast...
- Final velocity - m/s, comes to a stop/rest, finally/end, how fast...
- Acceleration - m/s^2
- Time - s, how long...

Givens	Work

Answer

Worksheet: Kinematics Part 2 - v$_f$

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4. Solve
5. Write your answer with the proper units

A race car is traveling at +76 m/s when is slows down at -9 m/s^2 for 4 seconds. What is his new velocity? - 3 pts -

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- Initial velocity - m/s, starting from rest, initially/beginning, how fast...
- Final velocity - m/s, comes to a stop/rest, finally/end, how fast...
- Acceleration - m/s^2
- Time - s, how long...

Givens	Work

Answer

Worksheet: Kinematics Part 2 - v_f

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NAME:

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3. List the givens
4. Solve
5. Write your answer with the proper units

A bicyclist is traveling at +25 m/s when he begins to decelerate at -4 m/s². How fast is he traveling after 5 seconds? - 3 pts -

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- Initial velocity - m/s, starting from rest, initially/beginning, how fast...
- Final velocity - m/s, comes to a stop/rest, finally/end, how fast...
- Acceleration - m/s²
- Time - s, how long...

Givens	Work

Answer

Worksheet: Kinematics Part 2 - v_f

$V_{final} = V_{initial} + at$

NAME:

1. Read the following problem
2. Highlight your "proof" for assigning variables
3. List the givens
4. Solve
5. Write your answer with the proper units

A car starts from rest and accelerates uniformly to reach a speed of 21 m/s in 7.0 s. What was the speed of the object after 2.0 seconds? - 3 pts -

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- Initial velocity - m/s, starting from rest, initially/beginning, how fast...
- Final velocity - m/s, comes to a stop/rest, finally/end, how fast...
- Acceleration - m/s^2
- Time - s, how long...

Givens	Work

Answer