

### Chapter 7 Energy Momentum and Energy



$t = 0 \text{ s}$   $v =$  \_\_\_\_\_

momentum = \_\_\_\_\_

$t = 1 \text{ s}$   $v =$  \_\_\_\_\_

momentum = \_\_\_\_\_

$t = 2 \text{ s}$   $v =$  \_\_\_\_\_

momentum = \_\_\_\_\_

$t = 3 \text{ s}$   $v =$  \_\_\_\_\_

momentum = \_\_\_\_\_

$t = 5 \text{ s}$   $v =$  \_\_\_\_\_

momentum = \_\_\_\_\_

*Show your work and include units!*

Bronco Brown wants to put  $Ft = \Delta mv$  to the test and try bungee jumping. Bronco leaps from a high cliff and experiences 3 s of free fall. Then the bungee cord begins to stretch, reducing his speed to zero in 2 s. Fortunately, the cord stretches to its maximum length just short of the ground below.

*Fill in the blanks:*

Bronco's mass is 100 kg.

Acceleration of free fall is  $10 \text{ m/s}^2$ .

Express values in SI units (distance in m, velocity in m/s, momentum in kg·m/s, impulse in N·s, and deceleration in  $\text{m/s}^2$ ).

$$d = \frac{1}{2} at^2$$

The 3-s free-fall distance of Bronco just before the bungee cord begins to stretch = \_\_\_\_\_

$\Delta mv$  during the 0 to 3-s interval of free fall = \_\_\_\_\_

$\Delta mv$  during the 3 to 5-s of slowing down = \_\_\_\_\_

Impulse during the 3 to 5-s of slowing down = \_\_\_\_\_

Average force exerted by the cord during the 3 to 5-s interval of slowing down = \_\_\_\_\_

How about work and energy? How much KE does Bronco have 3 s after he first jumps? \_\_\_\_\_

How much does gravitational PE decrease during this 3 s? \_\_\_\_\_

What two kinds of PE are changing during the 3 to 5-s slowing-down interval?

\_\_\_\_\_

\_\_\_\_\_

# Conceptual Development Practice Page Physics 7 1

## Momentum Answers

**AN Whitehead**



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