

Chapter 2: Newton's Laws of Motion

Bronco and Newton's Second Law

Bronco skydives and parachutes from a stationary helicopter. Various stages of fall are shown in positions *a* through *f*. Using Newton's 2nd law,

$$\vec{a} = \frac{F_{NET}}{m} = \frac{W - R}{m}$$

find Bronco's acceleration at each position (answer in the blanks to the right). You need to know that Bronco's mass *m* is 100 kg so his weight is a constant 1000 N. Air resistance *R* varies with speed and cross-sectional area as shown.

Circle the correct answers.

- When Bronco's speed is least, his acceleration is  
(least) (most).
- In which position(s) does Bronco experience a downward acceleration?  
(a) (b) (c) (d) (e) (f)
- In which position(s) does Bronco experience an upward acceleration?  
(a) (b) (c) (d) (e) (f)
- When Bronco experiences an upward acceleration, his velocity is  
(still downward) (upward also).
- In which position(s) is Bronco's velocity constant?  
(a) (b) (c) (d) (e) (f)
- In which position(s) does Bronco experience terminal velocity?  
(a) (b) (c) (d) (e) (f)
- In which position(s) is terminal velocity greatest?  
(a) (b) (c) (d) (e) (f)
- If Bronco were heavier, his terminal velocity would be  
(greater) (less) (the same).



*a*  $R = 0$   
 $W = 1000 \text{ N}$

$a =$  \_\_\_\_\_

*b*  $R = 400 \text{ N}$   
 $W = 1000 \text{ N}$

$a =$  \_\_\_\_\_

*c*  $R = 1000 \text{ N}$   
 $W = 1000 \text{ N}$

$a =$  \_\_\_\_\_

*d*  $R = 1200 \text{ N}$   
 $W = 1000 \text{ N}$

$a =$  \_\_\_\_\_

*e*  $R = 2000 \text{ N}$   
 $W = 1000 \text{ N}$

$a =$  \_\_\_\_\_

*f*  $R = 1000 \text{ N}$   
 $W = 1000 \text{ N}$

$a =$  \_\_\_\_\_

# Conceptual Physical Science Practice Sheet

**Paul G. Hewitt, John A. Suchocki, Leslie  
Hewitt**

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