

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,

$$a = \frac{F_{\text{net}}}{m} = \frac{W - R}{m}$$

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.

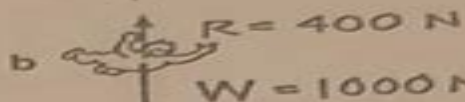
Circle the correct answers.

- 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).



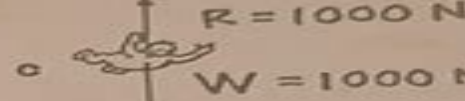
a $W = 1000 \text{ N}$

$a =$ _____



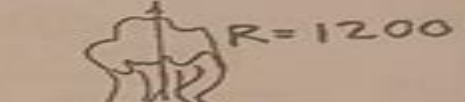
b $W = 1000 \text{ N}$

$a =$ _____



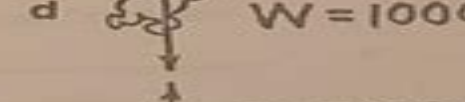
c $W = 1000 \text{ N}$

$a =$ _____



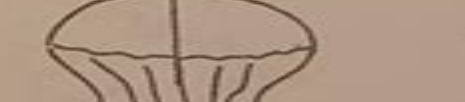
d $W = 1000 \text{ N}$

$a =$ _____



e $W = 1000 \text{ N}$

$a =$ _____



f $W = 1000 \text{ N}$

$a =$ _____

Conceptual Physical Science Practice Sheet Chapter 2

Answers

Randall D. Knight



Conceptual Physical Science Practice Sheet Chapter 2 Answers:

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Physics, Volume 1 Robert Resnick, David Halliday, Kenneth S. Krane, 2002 Each chapter includes questions and problems **Science Books & Films** ,1989 College Physics Randall Dewey Knight, Brian Jones, Stuart Field, 2007

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