

Quiz 4

Jan. 30, 2001

7) Acting on an object are three force vectors:

$\mathbf{A} = -5$ newtons,

$\mathbf{B} = +2$ newtons, and

\mathbf{C} .

What force vector, \mathbf{C} , is required to balance the forces?

a) $+7$ newtons

b) $+5$ newtons

c) -3 newtons

d) -7 newtons

* e) $+3$ newtons

8) Consider the following statements:

I. An action - reaction pair of forces can never balance.

II. If I pull on a rope with a force magnitude, F , the rope pulls on me with a force with the same magnitude.

Are the statements true or false?

* a) both I and II are true

b) only II is true

c) only I is true

d) both I and II are false

e) none of the above