

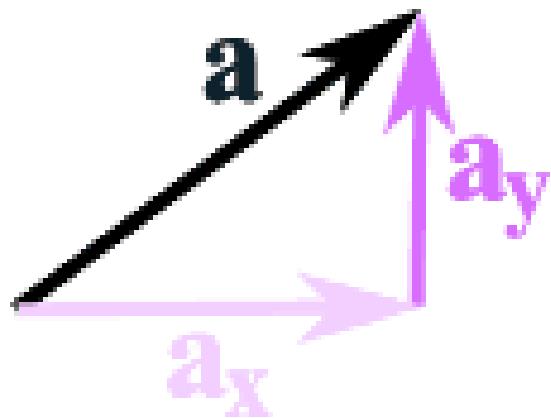
## Answer on Question#41020, Physics, Mechanics

### Question:

Vector  $a$  has components  $a_x = 15$  and  $a_y = 9$ . What is the approximate magnitude of the vector?

- a) 17.5
- b) 24
- c) 10.9
- d) 6.87
- e) 12

### Answer:



Using Pythagorean theorem:

$$a = \sqrt{a_x^2 + a_y^2} = \sqrt{15^2 + 9^2} = 17.5$$

Answer: a) 17.5