

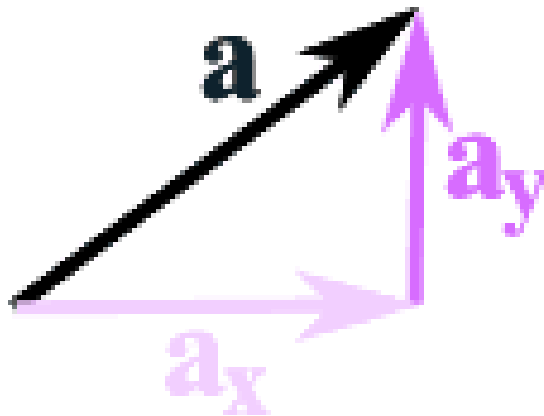
Answer on Question#41020, Physics, Mechanics

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