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addition of the two displacements r_2 easily determine the x and y components of a displacement whose magnitude is 300 m at a 23° angle from the x axis

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alternate solution is easier than the default solution the

graphical method for addition of vectors requires placing

them head to tail the sum would be the resultant vector

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expressed as the equation $a = \frac{v_f - v_i}{t}$ or rearranged to $v_f = v_i + at$. The equation is probably the most important equation in all of mechanics. It is used to predict how an object will accelerate in magnitude and direction in the presence of an

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90 mph in a major league game the batter hits the ball on a line drive straight toward the pitcher at 50 m s 112 mph
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