E. Solving Problems using the motion equations

Ex 3) Starting from rest, an object accelerates at a rate of 12 m/s^2. What is the velocity of the object at the end of 3.0 seconds?

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Ex 4) An object at 100. m/s accelerates at a rate of 120. m/s^2. What will the velocity of this object be after .10 seconds?

3 ways to have non-zero acceleration (to change velocity):

F. Motion Terms and Direction

A whole branch of mathematics is required to deal with numbers that have direction

Vector - a quantity that includes _____& _____

ex) displacement, acceleration, velocity

Scalar - a quantity that includes _____

ex. _____