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Newton's second law. The unit of force, appropriately, is the Newton, which is the force required to impart an acceleration of  $1\text{m/s}^2$  to a mass of  $1\text{kg}$ . A mass of one kilogram therefore weighs  $9.81$  Newtons at the earth's surface.

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different unit vectors is equal to zero. That is value of  $\hat{a}_1 \cdot \hat{a}_2$ , and is equal to zero. So the dot product between two vectors  $\hat{a}_1$  and  $\hat{a}_2$  is given by, But the length of A comes from the Pythagorean Theorem as,

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