

## AS MECHANICS UNIT G481. NOTES.

### Scalars Quantities

A scalar quantity is one that has magnitude (size) only. Scalar quantities can be added together or subtracted simply.

For example, if an object has 20J of kinetic energy and 10J of potential energy, its total energy is 30J.

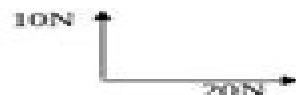
Examples of scalar quantities include:

distance, energy, speed and electrical resistance.

### Vector Quantities

A vector quantity is one that has both magnitude and direction. When vector quantities are added together or subtracted, both their direction and their magnitude must be taken into account. The result of adding or subtracting vectors is called the resultant of the original vectors.

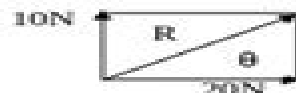
For example, if a horizontal force to the right of 20N is to be added to an upward vertical force of 10N, the problem can be represented using a diagram:



The answer could be found by scale drawing, but this is slow and can be inaccurate. If a scale drawing is to be used the following rules should be followed:

- 1) State the scale used
- 2) Give the resultant both as a length and converted back to the vector quantity
- 3) Give the direction of the resultant with reference to either a fixed direction or to one of the other vectors.

The answer can be found by calculation:



The magnitude of the resultant, R, is calculated using Pythagoras' theorem:

$$R^2 = 10^2 + 20^2 = 500$$

So  $R = 22.4\text{N}$

The direction of the resultant is found using trigonometry:

Let  $\theta$  be the angle between the resultant and the 20N force, then:

$$\tan \theta = \frac{10}{20} \quad \text{So } \theta = 26.6^\circ$$

Examples of vector quantities include:

displacement, force, velocity and acceleration.

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**K Morrison**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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