Vector Notes

Negative vectors:

V

-V

(Scalar) Multiplication –

0.5 V

2V

V

Vector subtraction

Given vectors u and v, then u – v = u + (-v)

U

2.5 m

v

1 m

Find u – v :

A2 + b2 = r2

12 + 2.52 =

Component Vectors:

Example:

500

8 m/s

Vertical

Horizontal

Horizontal component vector

Horizontal =

Vertical Component vector

Vertical =

Example:

Vertical

13 m/s

660

Horizontal

Horizontal:

Vertical: