

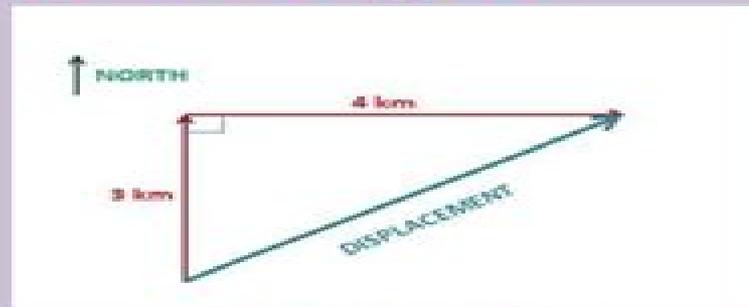
## Distance and Displacement Practice—Solutions

Calculate the **DISTANCE** and **DISPLACEMENT** of the following situations:

1. David walks 3 km north, then turns and walks 4 km east. *Express your answer in kilometers.*

$$\text{Distance} = 3 \text{ km} + 4 \text{ km} = 7 \text{ km}$$

For the displacement, we will use the Pythagorean Theorem because David's path makes a right angle. See the image below.



The Pythagorean Theorem says  $A^2 + B^2 = C^2$ , where  $C$  is the side opposite the right angle.

$$A^2 + B^2 = C^2$$

$$(3 \text{ km})^2 + (4 \text{ km})^2 = C^2$$

$$9 \text{ km}^2 + 16 \text{ km}^2 = C^2$$

$$25 \text{ km}^2 = C^2$$

Take the square root of both sides of the equation.

$$5 \text{ km} = C$$

$$\text{Displacement} = 5 \text{ km Northeast}$$

2. Amy runs 2 miles south, then turns around and runs 3 miles north. *Express your answer in miles.*

# Physics Displacement Problems And Solutions

**Yicheng Fang**



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