Addition and scalar multiplication: questions

Kin Wang Pang, Renee Knapp

A selection of questions for the study guide on addition and scalar multiplication.

*Before attempting these questions, it is highly recommended that you read* [*Guide: Addition and scalar multiplication*](additionandscalarmultiplication.qmd)*.*

## Q1

Answer the following questions.

1.1. If and , find .

1.2. If and , find .

1.3. If and , find .

1.4. If , and , find .

## Q2

Solve the following in terms of , and .

2.1. If and , find .

2.2. If and , find .

2.3. If , and , find .

2.4. If , What is ?

## Q3

Answer the following questions.

3.1. If . find .

3.2. If , find .

3.3. If and , find .

3.4. If , and , find .

## Q4

Answer the following questions.

4.1. If . , find .

4.2. If , and , find .

4.3. If , , and and are parallel, find .

4.4. If and , find the coordinates of .

4.5. If and , find in terms of and .

4.6. If , and , solve for the unknowns.

4.7.Given that and are parallel. If and , find .

4.8. If , solve for the unknowns.

[Please click this link to find the answers.](as-additionandscalarmultiplication.qmd)