

Vektoren addieren, subtrahieren und vervielfachen

Stufe 1: Addition und Subtraktion in der Ebene

Name: _____

Datum: _____

Rechne komponentenweise. Die Vektoren sind in Zeilenschreibweise (x | y | z) angegeben.

1) $(9 \mid 6) - (-4 \mid 6) =$ _____

2) $(-6 \mid 4) - (-3 \mid -2) =$ _____

3) $(-6 \mid -5) + (-6 \mid 9) =$ _____

4) $(-2 \mid -1) - (-4 \mid -6) =$ _____

5) $(8 \mid -1) - (5 \mid -7) =$ _____

6) $(2 \mid -4) - (-9 \mid -4) =$ _____

7) $(-3 \mid -3) - (-9 \mid 0) =$ _____

8) $(5 \mid -5) - (-7 \mid 6) =$ _____

9) $(-3 \mid 4) - (5 \mid -9) =$ _____

10) $(4 \mid 9) - (8 \mid 1) =$ _____

11) $(8 \mid 9) - (9 \mid 3) =$ _____

12) $(2 \mid 6) + (-3 \mid -7) =$ _____

Lösungen: Vektoren addieren, subtrahieren und vervielfachen

Stufe 1: Addition und Subtraktion in der Ebene

1) $(9 \mid 6) - (-4 \mid 6) = (13 \mid 0)$

2) $(-6 \mid 4) - (-3 \mid -2) = (-3 \mid 6)$

3) $(-6 \mid -5) + (-6 \mid 9) = (-12 \mid 4)$

4) $(-2 \mid -1) - (-4 \mid -6) = (2 \mid 5)$

5) $(8 \mid -1) - (5 \mid -7) = (3 \mid 6)$

6) $(2 \mid -4) - (-9 \mid -4) = (11 \mid 0)$

7) $(-3 \mid -3) - (-9 \mid 0) = (6 \mid -3)$

8) $(5 \mid -5) - (-7 \mid 6) = (12 \mid -11)$

9) $(-3 \mid 4) - (5 \mid -9) = (-8 \mid 13)$

10) $(4 \mid 9) - (8 \mid 1) = (-4 \mid 8)$

11) $(8 \mid 9) - (9 \mid 3) = (-1 \mid 6)$

12) $(2 \mid 6) + (-3 \mid -7) = (-1 \mid -1)$