



Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

- ✓ Find the magnitude of a vector. ✓ Add two vectors. ✓ Subtract two vectors.
 ✓ Understand vector components.



Section A • Concept Check

• BEGINNER

$4 \times 1 = 4$

- 1 The magnitude of (5,12) is:
☐ A. 13 ☐ B. 17 ☐ C. 7 ☐ D. 60
- 2 The magnitude of (0,7) is:
☐ A. 7 ☐ B. 0 ☐ C. 49 ☐ D. 3.5
- 3 $(3,-1) + (-2,5) = ?$
☐ A. (1,4) ☐ B. (5,-6) ☐ C. (1,6) ☐ D. (-1,4)
- 4 $(5,6) - (2,3) = ?$
☐ A. (3,3) ☐ B. (7,9) ☐ C. (3,9) ☐ D. (10,18)



Section B • Problem Solving

• INTERMEDIATE

$2 + 3 \times 3 = 11$

- 5 The magnitude of (a, b) is _____
- 6 Vectors are added _____ by component.
- 7 Find the magnitude of (5,12).

- 8 Find the magnitude of (0,7).

- 9 Add (3,-1) and (-2,5).



Section C • Challenge

• CHALLENGE

5

- 10 Subtract $(5,6) - (2,3)$.

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature _____

Parent's Signature _____

ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 $\sqrt{a^2 + b^2}$ 6 component 7 = 13 8 = 7 9 = (1,4) | 10 = (3,3)