

Name : \_\_\_\_\_

## Vectors

Sheet 3

A) Express the vectors in terms of  $\hat{i}$  and  $\hat{j}$ .

1)  $\langle -4, 1 \rangle =$  \_\_\_\_\_

2)  $\langle -2, -9 \rangle =$  \_\_\_\_\_

3)  $\langle -8, -2 \rangle =$  \_\_\_\_\_

4)  $\langle 6, 4 \rangle =$  \_\_\_\_\_

5)  $\langle 9, -7 \rangle =$  \_\_\_\_\_

7)  $\langle 7, 10 \rangle =$  \_\_\_\_\_

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B) Write each of the

1)  $-3\hat{i} - 4\hat{j} =$  \_\_\_\_\_

3)  $2\hat{i} - \hat{j} =$  \_\_\_\_\_

5)  $-10\hat{i} + 2\hat{j} =$  \_\_\_\_\_

6)  $8\hat{i} + 6\hat{j} =$  \_\_\_\_\_

7)  $7\hat{i} + 7\hat{j} =$  \_\_\_\_\_

8)  $\hat{i} - 9\hat{j} =$  \_\_\_\_\_