

Name : _____

Vectors

Sheet 1

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

1) $\langle 2, 7 \rangle =$ _____

2) $\langle -6, 5 \rangle =$ _____

3) $\langle 1, -5 \rangle =$ _____

4) $\langle -3, -1 \rangle =$ _____

5) $\langle -10, 10 \rangle =$ _____

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

7) $\langle -7, -8 \rangle =$ _____

8) $\langle 8, -9 \rangle =$ _____

B) Write each of the following vectors in $\langle a, b \rangle$ form.

1) $-\hat{i} + \hat{j} =$ _____

2) $2\hat{i} + 5\hat{j} =$ _____

3) $-8\hat{i} - \hat{j} =$ _____

4) $10\hat{i} - 6\hat{j} =$ _____

5) $5\hat{i} + 6\hat{j} =$ _____

6) $-9\hat{i} - 4\hat{j} =$ _____

7) $4\hat{i} - 2\hat{j} =$ _____

8) $-3\hat{i} + 7\hat{j} =$ _____