Practice worksheet | Vectors in two dimensions

Component and unit-vector notation

Name: _____ Date: _____

6 questions | 14 marks

1. Write $(5, -7)$ in basis-vector notation. [2 marks]

2. Write $6\mathbf{j} + 2\mathbf{i}$ as an ordered pair. [2 marks]

3. Find a unit vector in the direction of $(8, 6)$. [2 marks]

4. Find both unit vectors parallel to $(1, -1)$. [3 marks]

5. Find k if $(\frac{3}{5}, k)$ is a unit vector. [3 marks]

6. Explain why normalising the zero vector is impossible. [2 marks]