Practice worksheet | Functions and straight-line graphs

Distance and midpoint

Name: _____ Date: _____

6 questions | 12 marks

1. Find the distance between $(1, 2)$ and $(4, 6)$. [2 marks]

2. Find the exact distance between $(-1, 3)$ and $(4, 5)$. [2 marks]

3. Find the midpoint of $(-5, -2)$ and $(3, 8)$. [2 marks]

4. A segment has endpoint $(2, 7)$ and midpoint $(-1, 4)$. Find its other endpoint. [2 marks]

5. Show that the triangle with vertices $(0, 0)$, $(4, 0)$ and $(2, 3)$ is isosceles. [2 marks]

6. A map uses kilometres on both axes. Two stations are at $(-3, 2)$ and $(5, -4)$. Find their straight-line separation and explain why this may not be the road distance. [2 marks]