

Thread 3, Mini-Test 2

Name: _____

Geometry

K**4**

Part A

1. Write the correct formula or equation for each of the following:

- a) The length of a line segment.

1

$$l = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

- b) The slope of a line.

1

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

- c) The midpoint of a line segment.

1

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

1

- d) Equation of a circle with centre (0, 0).

$$x^2 + y^2 = r^2$$