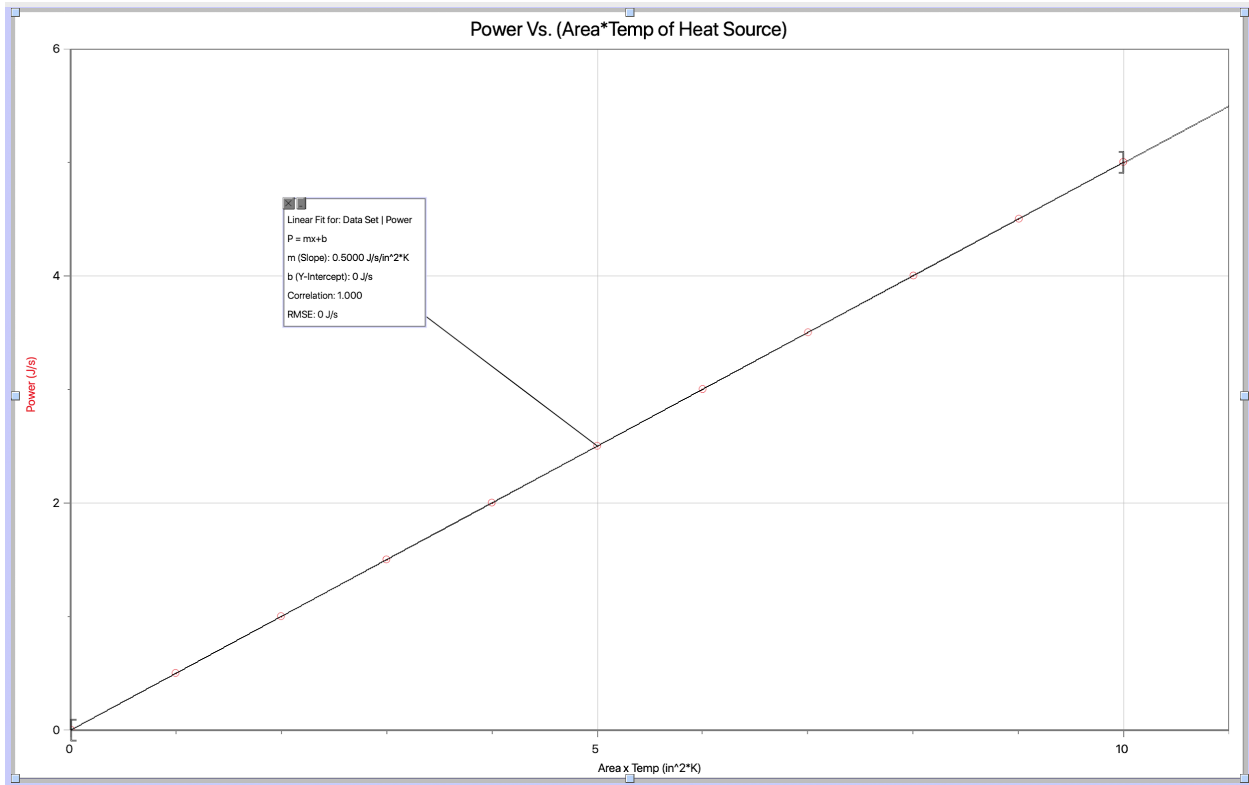


NAME _____

Conduction HW



1. The Y-axis of this graph is the rate at which a substance (substance A) transfers thermal energy, whereas the X-axis is the product of this substance's area and the initial temperature exposure.

(a) Determine substance A's U-factor.

(b) Determine substance A's R-value.

2. If the same graph of a different substance (substance B) was found to have half the U-factor as the graph shown, which substance would be a better conductor of thermal energy?

3. Which substance would you rather have in contact with yourself when surviving the night in the winter without any external sources of heat?

