**The Wandering Point**

**Purpose**

* Determine the residuals of a linear model using informal and formal methods.

**Materials**

* Clearboard (1 per student)
* Graph template
* 4 wikki sticks
* Graphing calculator

**Procedures**

1. Use your wikki stick to “eyeball” a line of best fit.
2. Find *ŷ* (predicted *y* value) for each *x* value.
3. Find the informal residual for each *x* value.
4. Find *y - ŷ* (exact residual) for each *x* value.

**Questions**

1. For graph #1, which point(s) have a small residual? large residual?

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1. For graph #2, which point(s) have a small residual? large residual?

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1. For graph #3, which point(s) have a small residual? large residual?

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1. For graph #4, which point(s) have a small residual? large residual?

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