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The fishing optimization problem: a tour of technology in the teaching of mathematics dedicated to Bert Waits and Frank Demana.

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Summary: Relaxation can provide time for reflection. This paper illustrates how relaxation, in the form of fishing, led to reflection involving mathematics and technology – in particular, the calculator technology fostered by Bert Waits and Frank Demana, Ohio’s internationally-recognized leaders in the field.

Classification: M50 M90 N60 U70

Keywords: mathematical applications; fishing; casting motion; physics; projectiles; graph of a function; approximation; optimization problems; function grapher; visualization; computer algebra