

## Results for Problem 5

Most groups found this problem to be a bit easier than the previous problems. Some classes are just now covering max/min problems, so they had some difficulty with the last part of the problem. In calculus, we spend a lot of time thinking about tangent line approximations. Later in the year you will look at parabolic approximations. But the most natural way to describe how curved a function is at a point, is to use the radius of the osculating circle. If you want to see the derivation of the formula, send me a note.

School	Location	Teacher	Score
Boulder Creek High School	Anthem, Arizona	Julie Baldwin	5
Fairview High School	Boulder, Colorado	Denise Fuji McCleary	5
Hickman High School	Columbia, Missouri	Deanna Wasman	5
Pine View School	Osprey, Florida	Ann Hankinson	5
Salem High School B	Virginia Beach, Virginia	Mary Harrison	1
The Westminster Schools	Atlanta, Georgia	Ellen Vesey	5

## Cumulative Results

School	Location	Teacher	Total Score
Boulder Creek High School	Anthem, Arizona	Julie Baldwin	22.5
Brookville High School	Brookville, Ohio	Sandy Dobberstein	15.5
Canton Central School	Canton, New York	Meg Clemens	5
Eagle's Landing Academy	McDonough, Georgia	Deborah Brown	8
Fairview High School	Boulder, Colorado	Denise Fuji McCleary	23.5
Hickman High School	Columbia, Missouri	Deanna Wasman	23
McIntosh High School	Peachtree City, Georgia	Diane Freeman	5
Pine View School	Osprey, Florida	Ann Hankinson	10
Salem High School A	Virginia Beach, Virginia	Mary Harrison	5
Salem High School B	Virginia Beach, Virginia	Mary Harrison	12
The Westminster Schools	Atlanta, Georgia	Ellen Vesey	22
University High School	Spokane Valley, WA	Michael Conklin	8