

Present neatly ~~on separate paper~~. Justify for full credit. No Calculators.

Name _____ Score _____ ~10 minutes
1.

Find the x -coordinate of the point on the graph of $y = \sqrt{x}$ where the tangent line is parallel to the secant line that cuts the curve at $x = 1$ and $x = 4$.

[5 points]

2.

Find k if the curve $y = x^2 + k$ is tangent to the line $y = 2x$.

[5 points]
