

Real Quiz # 2 for Dr. Z.'s MathHistory

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. (2 points) How did the Babylonians approximate square-roots?

2. (2 points) What approximation to π did the ancient Babylonians use? Is it better or worse than the one used in ancient Egypt?

3. (1 point) What was the name of the script used in ancient Babylon, that they wrote on clay tablets?

4. (2 points) Construct a four by four magic square.

5. (3 points) Derive, and **prove**, an explicit formula for

$$A(n) := 3 + 7 + 11 + \dots + 4n - 1 = \sum_{i=1}^n (4i - 1) \quad .$$