

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

NAME: (print!) _____

Email DrZlinear@gmail.com as soon as I tell you (around 3:15pm)

Subject: q2

with an attachment called

q2FirstLast.pdf (e.g. q2DavidHilbert.pdf)

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 (without peeking, I trust you!) a four by four magic square.

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

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