

Math 4A3-6A3 / Real Analysis II
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Please go to the website and read the Course Outline!

Practice problem for classtime, Thursday September 6th:

Which of the following are valid metrics on the real line?

$$d_1(x, y) = (x - y)^2$$

$$d_2(x, y) = \sqrt{|x - y|}$$

$$d_3(x, y) = |x^2 - y^2|$$

$$d_4(x, y) = |x - 2y|$$

$$d_5(x, y) = \frac{|x - y|}{1 + |x - y|}$$