

Name: .....

ID:.....

1. (a) smallest, largest (2) \_\_\_\_\_  
(b) number of numbers (1) \_\_\_\_\_  
(c) fraction, distance (2) \_\_\_\_\_  
(d) fraction, distance (2) \_\_\_\_\_

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2. (a) r1, r2, errors (2) \_\_\_\_\_  
(b) new r1 (2) \_\_\_\_\_  
(c) improved algorithm (2) \_\_\_\_\_  
(d) improved r1, r2, errors (2) \_\_\_\_\_  
(e) improved r1, r2, errors (2) \_\_\_\_\_

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3. stability analysis

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4. (a) quadratic interpolating spline (2) \_\_\_\_\_  
(b) plot (2) \_\_\_\_\_

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5. not-a-knot spline

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6. (1) plots (2), code (2) (4) \_\_\_\_\_  
(2) plots (2), code (2) (4) \_\_\_\_\_  
(3) plots (2), code (6) (8) \_\_\_\_\_

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Total: (48) \_\_\_\_\_