**Linear and Nonlinear Functions Practice**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_**

Is the function linear or nonlinear?

1. y = x2 + 7 \_\_\_\_\_\_\_\_\_\_

2. y = 6x + 4 \_\_\_\_\_\_\_\_\_\_

3. y = x \_\_\_\_\_\_\_\_\_

4. y = + 3 \_\_\_\_\_\_\_\_\_

5. x = 2 \_\_\_\_\_\_\_\_\_\_

6. y = -x \_\_\_\_\_\_\_\_\_\_

7. y = 3x2 – 4x + 2 \_\_\_\_\_\_\_\_\_\_\_

8. y = -4x + 5 \_\_\_\_\_\_\_\_\_\_\_

9. y = -3 \_\_\_\_\_\_\_\_\_\_\_\_

10. y = 2x3 + 1 \_\_\_\_\_\_\_\_\_\_\_

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**Linear and Nonlinear Functions Practice**

**Answer Key**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_**

Is the function linear or nonlinear?

1. y = x2 + 7 Nonlinear

2. y = 6x + 4 Linear

3. y = x Linear

4. y = + 3 Nonlinear

5. x = 2 Linear

6. y = -x Linear

7. y = 3x2 – 4x + 2 Nonlinear

8. y = -4x + 5 Linear

9. y = -3 Linear

10. y = 2x3 + 1 Nonlinear

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