

Choosing a Model Worksheet

Unit 8 Day 6 Homework

Graph each set of points. Which model is most appropriate for each set? After you decide which model is best, write down your model equation.

1. $(-2, -3), (-1, 0), (0, 1), (1, 0), (2, -3)$

2. $(-2, -8), (0, -4), (3, 2), (5, 6)$

3. $(-3, 6), (-1, 0), (0, -1), (1, -1.5)$

4. $(-2, 5), (-1, -1), (0, -3), (1, -1), (2, 5)$

5. $(-2, -5\frac{8}{9}), (-1, -5\frac{2}{3}), (0, -5), (2, 3)$

6. $(-3, 8), (-1, 6), (0, 5), (2, 3), (3, 2)$

Which kind of function best models the data in each table? Write an equation to model the data.

7.

| x | y |
|---|------|
| 0 | 0 |
| 1 | 1.5 |
| 2 | 6 |
| 3 | 13.5 |
| 4 | 24 |

8.

| x | y |
|---|----|
| 0 | -5 |
| 1 | -3 |
| 2 | -1 |
| 3 | 1 |
| 4 | 3 |

9.

| x | y |
|---|------|
| 0 | 0 |
| 1 | 2.8 |
| 2 | 11.2 |
| 3 | 25.2 |
| 4 | 44.8 |

10.

| x | y |
|---|--------|
| 0 | 1 |
| 1 | 1.2 |
| 2 | 1.44 |
| 3 | 1.728 |
| 4 | 2.0736 |

11.

| x | y |
|---|-------|
| 0 | 5 |
| 1 | 2 |
| 2 | 0.8 |
| 3 | 0.32 |
| 4 | 0.128 |

12.

| x | y |
|---|-----|
| 0 | 2 |
| 1 | 1.5 |
| 2 | 1 |
| 3 | 0.5 |
| 4 | 0 |

Looking at the following scatter plots, which model would best model the data?

