

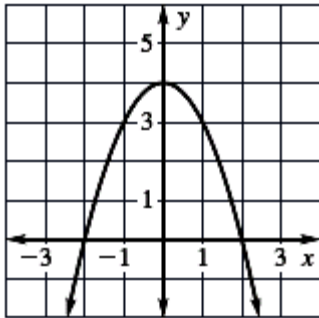
Name _____

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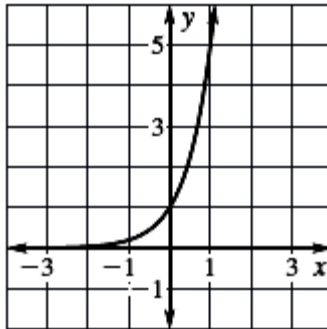
Comparing Linear, Quadratic, and Exponential Worksheet

Identify the following as Increasing Linear, Decreasing Linear, Positive Quadratic, Negative Quadratic, Exponential Growth, or Exponential Decay.

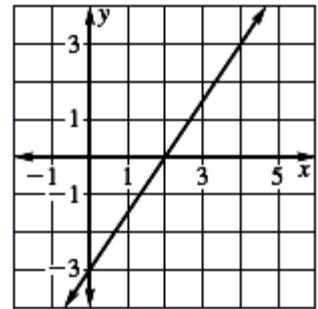
1. _____



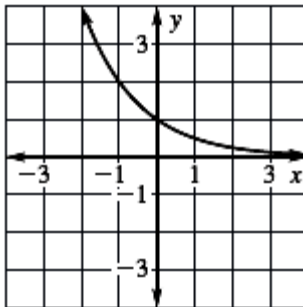
2. _____



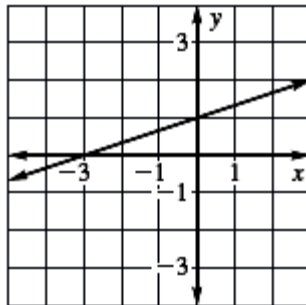
3. _____



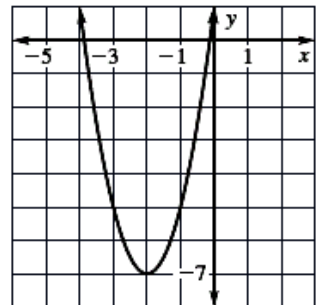
4. _____



5. _____



6. _____



7. _____

x	-2	-1	0	1	2
y	100	10	1	$\frac{1}{10}$	$\frac{1}{100}$

8. _____

x	-1	0	1	2	3
y	1	4	7	10	13

9. _____

x	-1	0	1	2	3
y	22	17	12	7	2

10. _____

x	-1	0	1	2	3
y	$\frac{1}{3}$	1	3	9	27

11. _____

$$y = \left(\frac{5}{2}\right)^x$$

12. _____

$$y = \frac{1}{4} \cdot 3^x$$

13. _____

$$y = -2x - 10$$

14. _____

$$y = 2x^2 + 5x - 7$$

15. _____

$$y = 4x - 3$$

16. _____

$$y = \frac{2}{5} \cdot 9^x$$

17. _____

$$y = 3 \cdot \left(\frac{1}{4}\right)^x$$

18. _____

$$y = 2(0.1)^x$$

19. _____

$$y = (x + 2)^2$$

20. _____

$$4x + y = 7$$

21. _____

$$y = 2 \cdot 5^x$$

22. _____

$$y = -(x - 3)^2$$

23. _____

$$y = -6x^2 - 5x + 4$$

24. _____

$$y = \frac{1}{7} \cdot \left(\frac{3}{8}\right)^x$$