

1.2.D2 - ANALYZING & SORTING GRAPHS

SPIRAL REVIEW

First, use the distributive property and/or collect like terms on the left side of the equation. Then use inverse operations to solve the equation. Show all work.

1. $-10(1 + n) = -110$

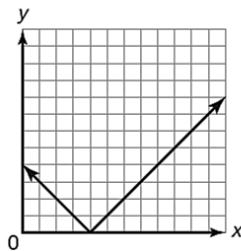
2. $-7m - 6 - 5m = -18$

3. $7 - 8(2x + 2) = -105$

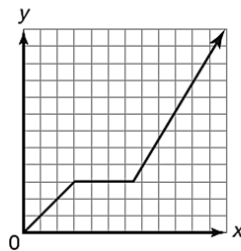
4. $-2(1 - 7d) + 2d = 142$

Choose the graph that best models the scenario. Identify the independent and dependent quantities; include units. (Refer to the Lesson 1.1 example "Labeling & Matching a Graph to an Appropriate Problem Situation" in the chapter summary.)

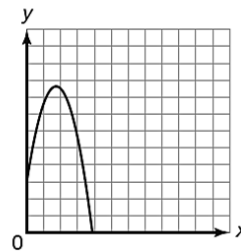
Graph A



Graph B



Graph C



5. Hector is training to participate in competitive trampoline. In his best jump, he can reach a maximum height of about 9 meters and can spend about 2 seconds in the air performing tricks.

6. Each day Maria starts her walk to school at 7:45 a.m. At 7:50 a.m. she stops at her friend Jenna's house. Jenna is usually late and Maria must wait at least 5 minutes for her to get ready. At 7:55 a.m. Maria and Jenna leave Jenna's house and arrive at school at 8:10 a.m.

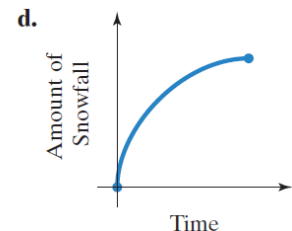
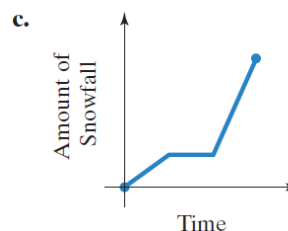
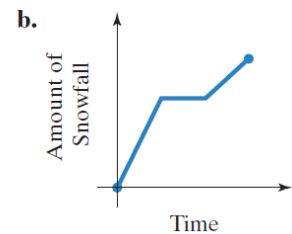
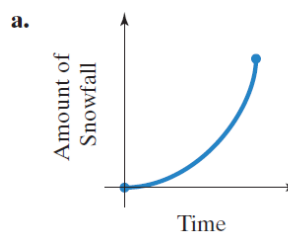
Match the story with the correct figure.

7. As the blizzard got worse, the snow fell harder and harder.

8. The snow fell more and more softly.

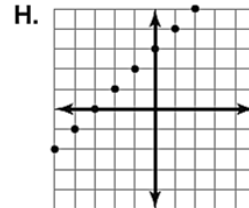
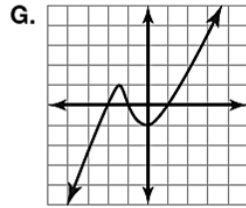
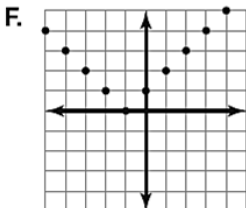
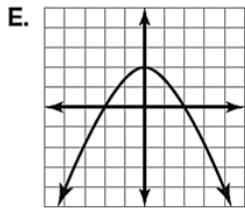
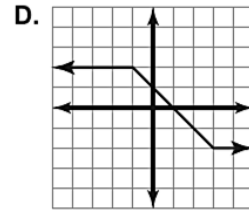
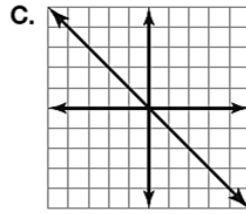
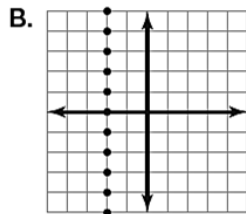
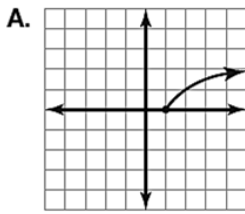
9. It snowed hard, but then it stopped. After a short time, the snow started falling softly.

10. It snowed softly, and then it stopped. After a short time, the snow starting falling hard.



NEW ~ LESSON 1.2

Consider the following graphs:



Analyze and sort the graphs using the characteristics provided.

11. Continuous

12. Discrete

13. Functions

14. Non-functions

15. Functions with the domain: the set of all real numbers

16. Functions with the domain: the set of integers

17. Functions that show vertical symmetry

18. Functions that show horizontal symmetry

19. Pass through exactly one quadrant

20. Pass through all 4 quadrants

21. The pair of graphs has been grouped together. Provide a rationale to explain why these graphs may have been grouped together.

