1.2.D1 ~ Analyzing & Sorting Graphs

Past due on_____ Period____

SPIRAL REVIEW

Combine like terms on the left side of the equation. Then use inverse operations to solve the equation. Show all work.

1) $2x - 4 - 8 = -4$

2) $-1 + 2v - 5 = -10$

3) $4p + 2 + 9 = -21$

4) $2x - 4 + 4x = -10$

Distribute and then combine like terms on the left side of the equation. Use inverse operations and solve the equation. Show all work.

5) $10(9x - 5) + 10x = -350$

6) $-4(-2 + 6x) + 10x = 148$

7) $-6n + 3(9n - 8) = -171$

8) $-3(1 - 5a) - 7 = -115$

Identify the independent and dependent quantities for the problem situation. Remember to include units. (Refer to Lesson 1.1 example "Identifying the Dependent & Independent Quantities" in the chapter summary.)

9) Philip enjoys rock climbing on the weekends. At some of the less challenging locations he can climb upwards of 12 feet per minute.

Independent quantity:

Dependent quantity:

10) Gavin works for a skydiving company. Customers pay $200 per jump to skydive in tandem skydives with Gavin.

Independent quantity:

Dependent quantity:

NEW ~ Lesson 1.2
Do "Big Problem 2 ~ I Like the Way You Think" (all 4 problems) on pages 28 - 31 of the Carnegie text. Record your responses in the space provided.

11) PROBLEM 1
Why do you think Matthew put these graphs in the same group?

12) PROBLEM 2
a. Show why Ashley's reasoning is correct.

b. If possible, identify other graphs (on pages 19 - 25) that show vertical symmetry.

13) PROBLEM 3
a. Explain why Duane's reasoning is not correct.

b. If possible, identify other graphs (on pages 19 - 25) that only go through two quadrants.

14) PROBLEM 4
a. What do you notice about the graphs?

b. What rationale could Josephine have provided?