Precalculus Journal A.APR.D.7: Inverse Variation www.jmap.org

NAME:

1. What is an inverse variation? Include an example.

2. Describe how a direct variation is different from an inverse variation.

3. Describe what the constant of variation means in a direct variation and an inverse variation.

4. Write five ordered pairs that are from the same inverse variation.

5. The area formula for a parallelogram with area 36 is bh = 36. Does the formula represent a direct or an inverse variation? Explain.

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In an inverse variation, the product of two quantities remains constant. For example, xy = 40 is an

[1] inverse variation.

In a direct variation, y increases as x increases. In an inverse variation, the product of x and y is constant, [2] so as y increases x decreases.

Answers may vary. Sample: In a direct variation, values of independent variables are multiplied by the constant of variation to find the values of the dependent variable. In an inverse variation the product of[3] the two variables equals the constant of variation.

- [4] Answers may vary. Sample: (1, 16), (2, 8), (4, 4), (8, 2), (16, 1)
- [5] It represents an inverse variation because the product of b and h is constant.