1.46 State which of the following represent discrete data and which represent continuous data:

(a) Number of inches of rainfall in a city during various months of the year

* continuous

(b) Speed of an automobile in miles per hour

* continuous

(c) Number of $20 bills circulating in the United States at any time

* discrete

(d) Total value of shares sold each day in the stock market

* continuous

(e) Student enrollment in a university over a number of year

* discrete

1.55 (a, b, h)

Evaluate each of the following, given that U = -2, V = 1/2, W = 3, X = -4, Y = 9, and Z = 1 /6, where all numbers are assumed to be exact.

1. 4U + 6V - 2W = -11
2. XYZ/UVW = 2

(h)

1.56

A

| X | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Y | 22 | 18 | 14 | 10 | 6 | 2 | -2 | -6 | -10 |  |

B

| X | -2.4 | -1.6 | -0.8 | 1.8 | 2.7 | 3.5 | 4.6 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Y | 19.6 | 16.4 | 13.2 | 2.8 | -0.8 | -4 | -8.4 |

1.87

