Matching Problem 1: In the colors of the visible light spectrum, the acronym ROYGBIV is often used.

Here is the list of questions:

- 1. R stands for
- **2.** O stands for
- **3.** G stands for
- **4.** V stands for

Here is the (permuted list) of answers

- A. Orange
- B. Red
- C. Green
- D. Violet

This problem below is a matching problem using all three possible questions and corresponding answers.

Matching Problem 2: Match the functions to their derivatives

Here is the list of questions:

$$-1$$
, $\tan^{-1} x$

$$\underline{}_{2.} \ln(\sqrt{1+x^2})$$

$$3. \ln(1+x^2)$$

Here is the (permuted list) of answers

A.
$$\frac{x}{1+x^2}$$

B.
$$\frac{1}{1+x^2}$$

$$C. \quad \frac{2x}{1+x^2}$$