**Section 4.4**

**Activity 1**

Give me an example of a relation that is:

1. A bijective function.
2. An injective (one-to-one) function only.
3. A surjective (onto) function only.
4. A function, but neither 1-to-1 or onto.
5. Not a function.

**Activity 2**

|  |  |
| --- | --- |
| * What is the image of Adams?
* What is the image of Epp?
* What is the inverse image of B?
* What is the inverse image of A?
 |  |

**Activity 3**

Find the inverse of each of these functions.

|  |  |
| --- | --- |
| * f: X → Y as shown by arrow diagram to the left
*
* *g*: **R**→R *g*(*x*) = 2*x* + 3
* *h*: **R**→R *h*(*x*) = *x*2 + 4
 |  |