

Contract Practice 2

For each of the sets of examples, write the contract for the function **above** the examples.

1. **third-root** :: **Number** -> **Number**

examples:

```
third-root(16) is num-expt(16, 1/3)
third-root(125) is num-expt(125, 1/3)
```

end

2. **sentence-length** :: **String, Number** -> **Number**

examples:

```
sentence-length("hello", 5) is (string-length("hello") + 5)
sentence-length("please", 6) is (string-length("please") + 6)
sentence-length("goodbye", 10) is (string-length("goodbye") + 10)
```

end

3. **upside-down** :: **Image** -> **Image**

examples:

```
upside-down(triangle(50, "solid", "yellow")) is
  rotate(180, triangle(50, "solid", "yellow"))
upside-down(star(150, "outline", "blue")) is
  rotate(180, star(150, "outline", "blue"))
```

end

4. **product-squared** :: **Number, Number** -> **Number**

examples:

```
product-squared(5, 6) is num-sqr(5 * 6)
product-squared(10, 17) is num-sqr(10 * 17)
product-squared(2, 5) is num-sqr(2 * 5)
```

end

5. **half-image** :: **String** -> **Image**

examples:

```
half-image("www.images.com/cat_image.jpg") is
  scale(0.5, image-url("www.images.com/cat_image.jpg"))
half-image("www.images.com/my-dog.jpg") is
  scale(0.5, image-url("www.images.com/my-dog.jpg"))
```

end