Creating Contracts From Examples

Directions : For each of the following collections of Examples, write the contract for the function above the examples.

1. _____ :: _____ -> _____

   ```
   examples:
     third-root(16) is expt(16, 1/3)
     third-root(125) is expt(125, 1/3)
     third-root(625) is expt(625, 1/3)
   end
   ```

2. _____ :: _____ -> _____

   ```
   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. _____ :: _____ -> _____

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

4. _____ :: _____ -> _____

   ```
   examples:
     product-squared(5, 6) is sqr(5 *  6)
     product-squared(10, 17) is sqr(10 *  17)
     product-squared(2, 5) is sqr(2 *  5)
   end
   ```

5. _____ :: _____ -> _____

   ```
   examples:
     half-image("www.images.com/cat_image") is
       scale(0.5, bitmap/url("www.images.com/cat_image"))
     half-image("www.images.com/dog_image") is
       scale(0.5, bitmap/url("www.images.com/dog_image"))
   end
   ```

6. _____ :: _____ -> _____

   ```
   examples:
     triple(4) is 4 * 3
     triple(10) is 10 * 3
     triple(3) is 3 * 3
   end
   ```