

# Do Examples Have the Same Contracts?

**Directions :** For each pairs of Examples below, decide whether the two examples have the same contract. If they do, fill in the contract in the space provided. If not, write a few words explaining why.

```
(EXAMPLE (mystery "" 4 5)
          ( 4 5))
```

```
(EXAMPLE (mystery "sqrt" 25))
          (sqrt 25))
```

- **no match (the domains have different numbers of arguments)**

```
(EXAMPLE (mystery (triangle 70 "solid" "green"))
          (triangle 140 "solid" "green"))
```

```
(EXAMPLE (mystery (circle 100 "solid" "blue"))
          (circle 200 "solid" "blue"))
```

- ```
; mystery : Image -> Image
```

```
(EXAMPLE (mystery "red")
          (triangle 140 "solid" "red"))
```

```
(EXAMPLE (mystery "blue" "circle"))
          (circle 140 "solid" "blue"))
```

- **no match (the domains have different numbers of arguments)**

```
(EXAMPLE (mystery "circle" 4)
          (* pi (sqr 4)))
```

```
(EXAMPLE (mystery "square" 5))
          (sqr 5))
```

- ```
; mystery : String Number -> Number
```

```
(EXAMPLE (mystery "dog")
          3)
```

```
(EXAMPLE (mystery "cat")
          "kitten"))
```

- **no match (the range types are different)**

```
(EXAMPLE (mystery "dog")
          3)
```

```
(EXAMPLE (mystery "kitten")
          6)
```

- ```
; mystery : String -> Number
```

```
(EXAMPLE (mystery 4 5 "big")
          (scale 2 (rectangle 4 5 "solid" "blue")))
```

```
(EXAMPLE (mystery 10 "small" 4)
```

- ```
(scale .5 (rectangle 10 4 "solid" "blue")))
```

**no match (the domains have different orders of arguments)**