# Symbols

## Sets

| Name | Domains | Description |
|------|---------|-------------|

## Parameters

| Name | Domains | Description |
|------|---------|-------------|
| budget | | total budget for production |

## Variables

| Name | Domains | Description |
|------|---------|-------------|
| h | | man hours in production |
| s | | tons of raw material |
| R | | Revenue |

## Equations

| Name | Domains | Description |
|------|---------|-------------|
| con1 | | constraint on budget |
| obj | | objective function |

# Equation Definitions

**obj**

$$R = -(200 \cdot h^{\frac{2}{3}} \cdot s^{\frac{1}{3}})$$

**con1**

$$20 \cdot h + 170 \cdot s \leq budget$$