```
{m}
                      rows (X)
                                           rows (y)
m
                                           size (y, <u>1</u>)
                   length (y)
size (X, 1)
length (x (:, 1)) length (x)
                                           size (X) (1)
{alphaOverM}
                     1 * alpha / {m}
                                           alpha .* 1 / {m}
alpha / {m}
alpha * inv (\{m\}) alpha * pinv (\{m\}) 1 .* alpha ./ \{m\}
alpha * (1 . / \{m\}) alpha * 1 . / \{m\} alpha * (1 / \{m\})
                     alpha .* (1 ./ \{m\}) alpha * \{m\} \land -1
.01 / {m}
{hypothesis}
                                   {residual}
                                    (X * theta - y)
(X * theta)
                                    (theta' * X' - y')'
(theta' * X')'
                                    ({hypothesis} - y)
[X] * theta
                                    ({hypothesis}' - y')'
(X * theta (:))
theta(\frac{1}{2}) + theta(\frac{2}{2}) * X(:, \frac{2}{2})
                                    [{hypothesis} - y]
                                    sum({hypothesis} - y, 2)
sum(X.*repmat(theta', \{m\}, 1), 2)
```