Multiply both Sides

> **What**: Multiply both sides of == by the same expression.
> **Why**: Such side-wise multiplication is an essential computation for solving equations.
> **Time to Complete**: 4 hours.

```
eq = (x - 3 == y / 13);

lhs = eq.left * 13;
rhs = eq.right * 13;

eq2 = (lhs == rhs);

show eq2;
```

Output

"eq2" → 13*(-3 + x) == y

Output

"eq2" → 13*(-3 + x) == y

Apply expand[ ] to one side

```
eq = (x - 3 == y / 13);

lhs = eq.left * 13;
rhs = eq.right * 13;

eq2 = (lhs == rhs);

show eq2;
```

```
lhs = expand[eq2.left];
rhs = eq2.right;

eq3 = (lhs == rhs);

show eq3;

save as lhsrhs;
```

Output

"eq2" → 13*(-3 + x) == y
"eq3" → -39 + 13*x == y

© 2012-Present CCN Studios

Creative Commons Attribution-NonCommercial-ShareAlike 4.0

Revision #5
Created 2026-05-07 23:33:39 UTC by Dara
Updated 2026-05-12 22:40:02 UTC by Dara