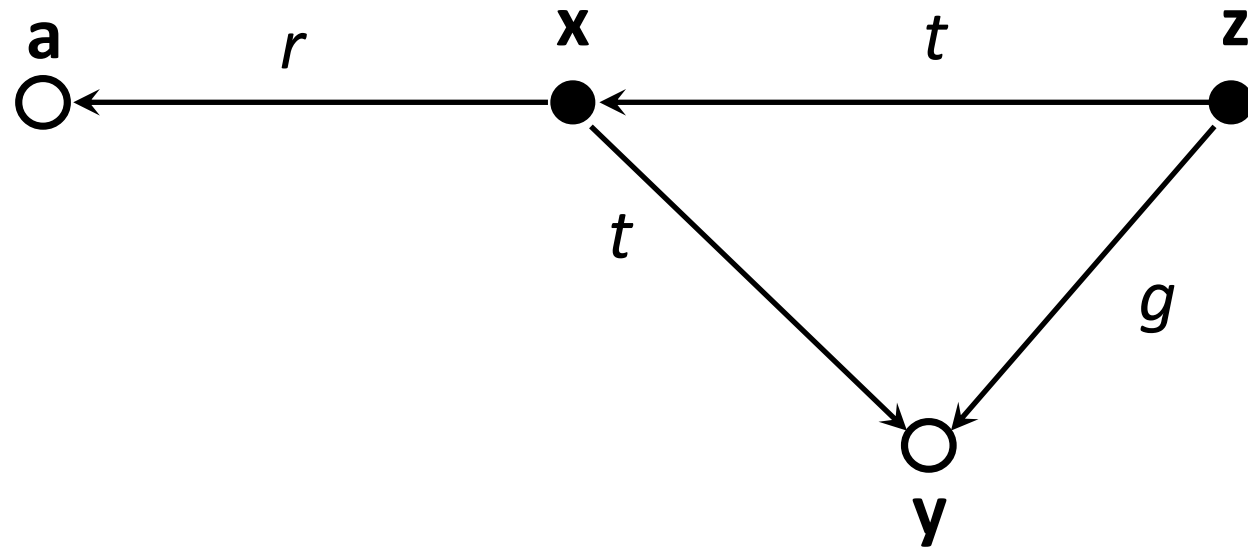
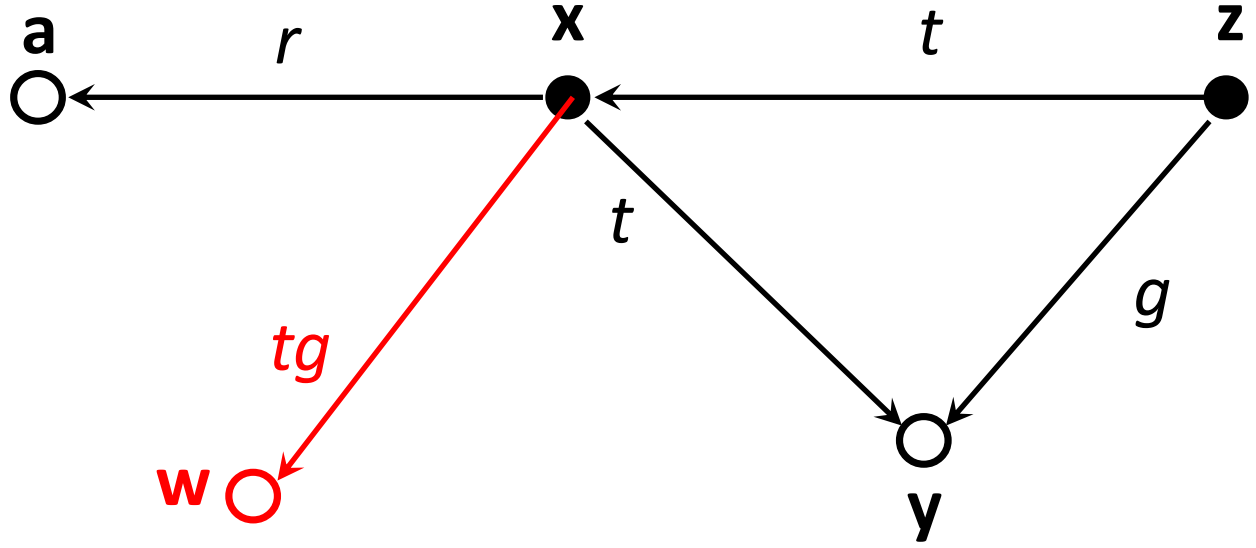


Example of Take-Grant Rule Applications

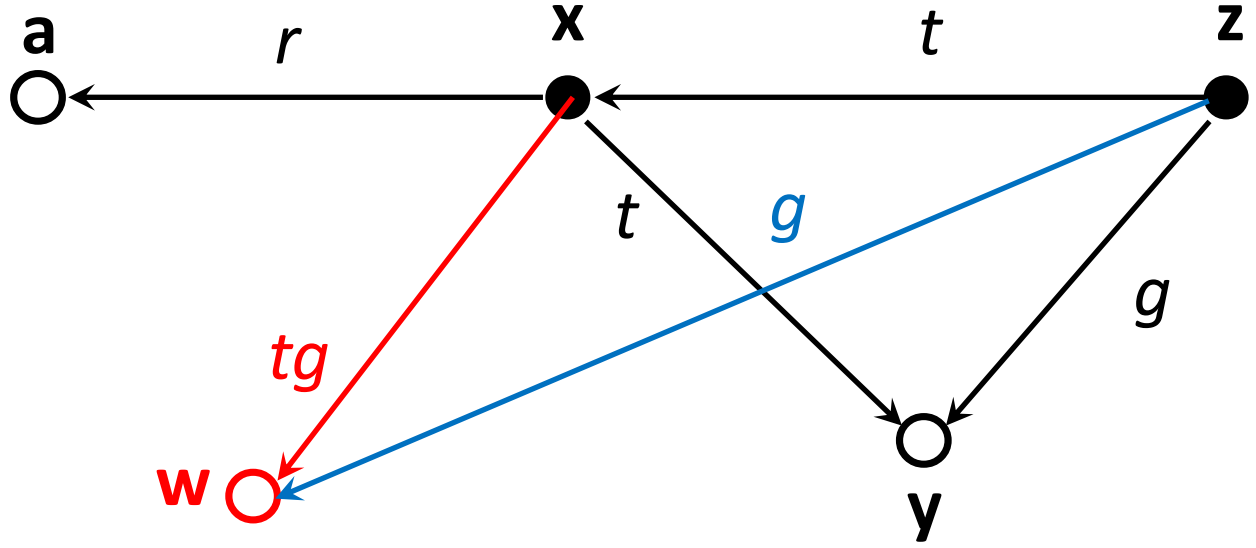
How can y obtain r rights over a ?



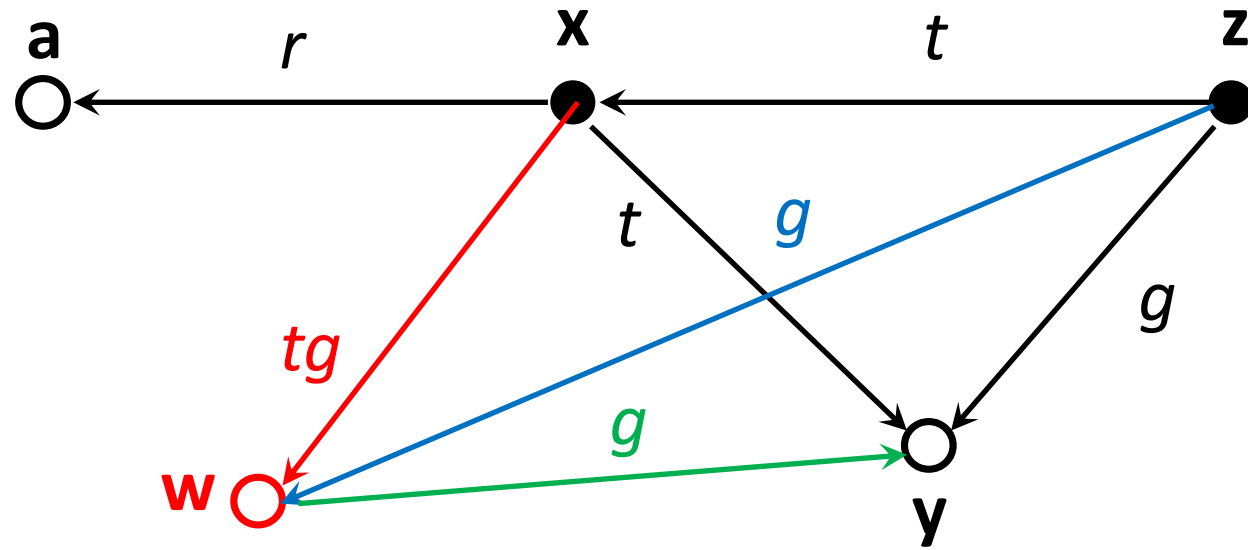
x creates (*tg* to new vertex) **w**



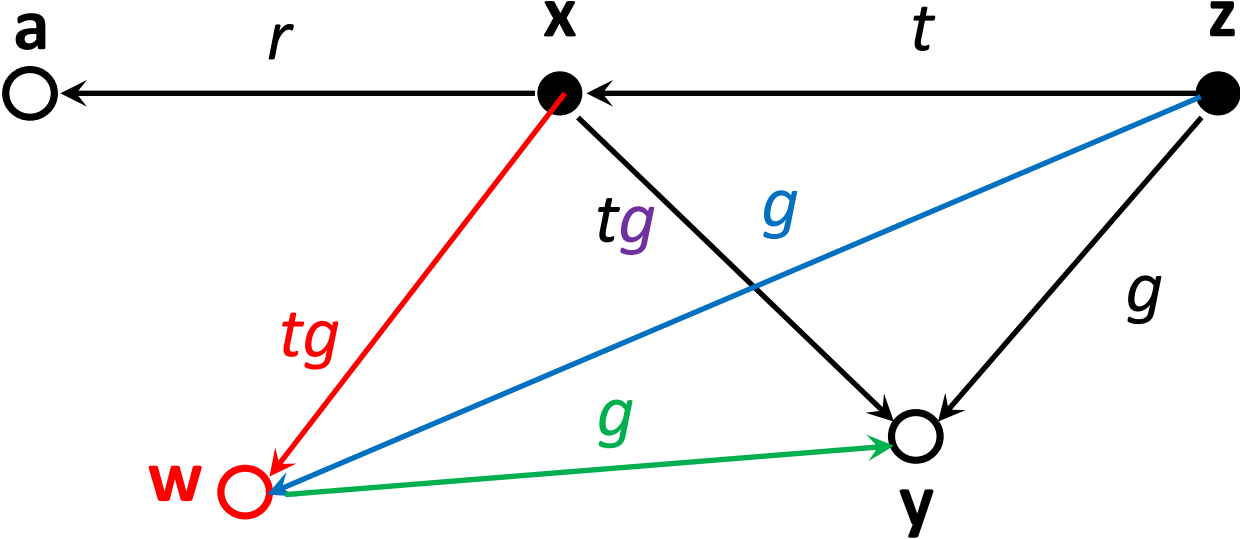
z takes (g to w) from x



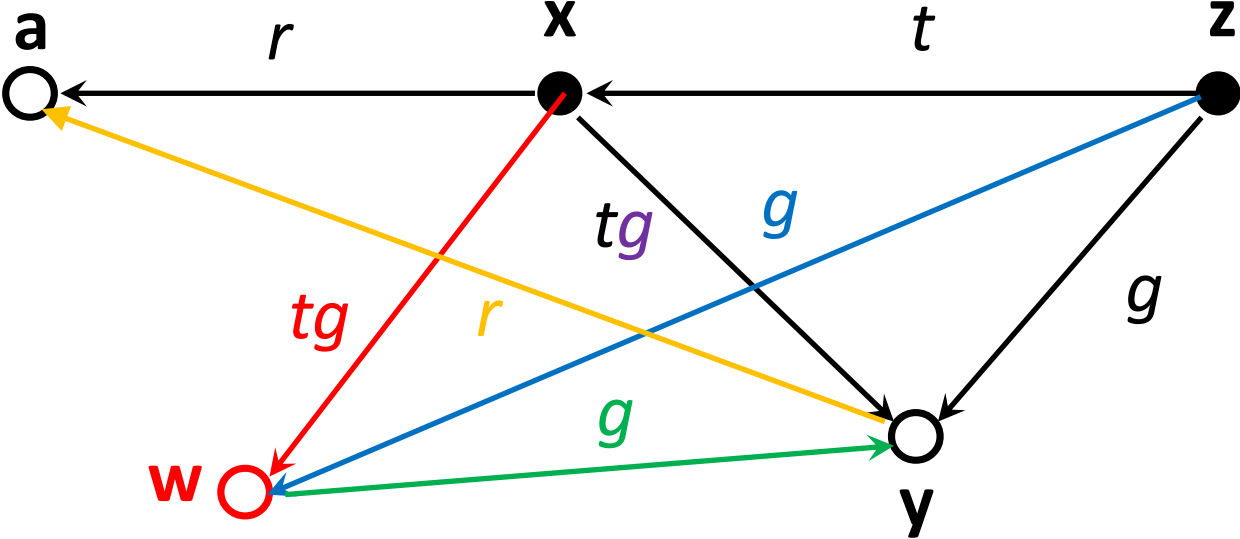
z grants (g to y) to w



x takes $(g$ to $y)$ from w



x grants (r to a) to y



So the Witness Is:

1. **x** creates (*tg* to new vertex) **w**
2. **z** takes (*g* to **w**) from **x**
3. **z** grants (*g* to **y**) to **w**
4. **x** takes (*g* to **y**) from **w**
5. **x** grants (*r* to **a**) to **y**