Question 4a

Question 4b

When the query roan(flame) is entered, Prolog first checks the statement “not paint(flame)”. Because “paint(flame)” is not established and returns false, “not paint(flame)” returns true. The same is true for “not clay\_bank(flame)”. The fact “clay\_bank(flame)” cannot be established and thus returns true. This means “not clay\_bank(flame)” also returns true. Which leads to “roan(flame)” returning true

Question 4c

Closed world assumption

Question 5

|  |  |
| --- | --- |
| A =:= B | Matches the values of the arithmetic expressions A and B |
| A=\=B | Check is 2 arithmetic expressions are not equal |
| A==B | Check if terms are identical |
| A\==B | Check if terms are not identical |
| A=B | See if terms match |

Question 6