

# A-REI How does the solution change?

## Task

In the equations (a)–(d), the solution  $x$  to the equation depends on the constant  $a$ . Assuming  $a$  is positive, what is the effect of increasing  $a$  on the solution? Does it increase, decrease, or remain unchanged? Give a reason for your answer that can be understood without solving the equation.

a.  $x - a = 0$

b.  $ax = 1$

c.  $ax = a$

d.  $\frac{x}{a} = 1$



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