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### **Opgave 259**

$$a(x) = -\frac{1}{2}x + 3 \quad b(x) = x + 1$$

$$(a \circ b)(x) = a(b(x))$$

$$(a \circ b)(x) = -\frac{1}{2}(x + 1) + 3$$

$$(a \circ b)(x) = -\frac{1}{2}x - \frac{1}{2} + 3$$

$$(a \circ b)(x) = -0.5x + 2.5$$

$$(b \circ a)(x) = b(a(x))$$

$$(b \circ a)(x) = \left(-\frac{1}{2}x + 3\right) + 1$$

$$(b \circ a)(x) = -\frac{1}{2}x + 4$$