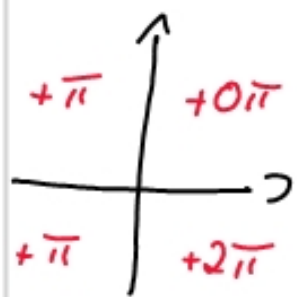


$$559 \text{ Nr. 1)} (2i-5) \cdot [(3i+4) - 2(i-4)]$$

$$(2i-5) \cdot (3i+4-2i+8)$$

$$(2i-5) \cdot (i+12) = 2i^2 + 24i - 5i - 60$$

$$-62 + 19i \Rightarrow \text{Argument } +\pi$$



$$2) 4 \cdot (i-3)(i+3) - (i-2)(5+i)$$

$$4 \cdot (i^2 - 9) - (5i + i^2 - 10 - 2i)$$

$$-40 - (3i - 11) = -29 - 3i \quad +\pi$$

$\alpha = \arctan \frac{b/a}{a}$

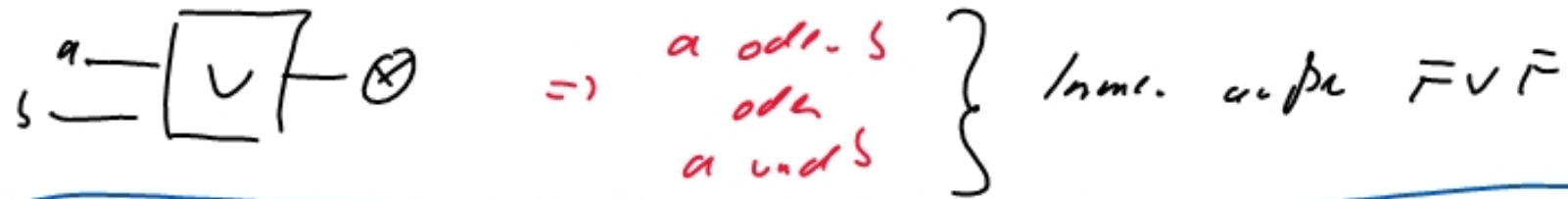
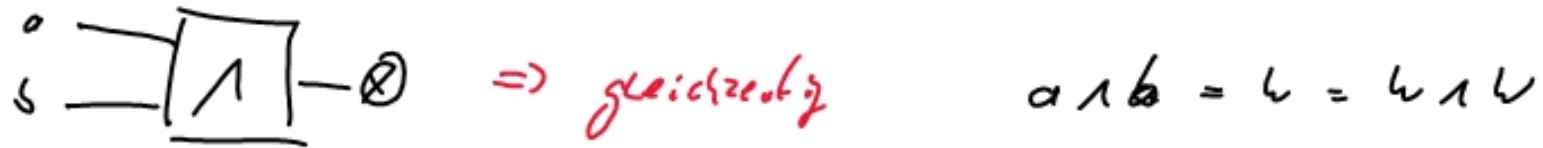
$$5) \frac{3-2i}{1-i} \cdot \frac{i+1}{i+1} = \frac{3i+3-2i^2-2i}{i^2-1} = \frac{i+5}{-2} = \frac{-5i-25}{10}$$

$$\frac{3i+4}{1-2i} \cdot \frac{1+2i}{1+2i} = \frac{3i+6i^2+4+8i}{1-4i^2} = \frac{-2+11i}{5} = \frac{-4+22i}{10}$$

$$\Rightarrow \frac{-5i-25}{10} - \frac{-4+22i}{10} - \frac{3i+19}{10} = \frac{-30i-40}{10} = -4-3i$$

$$r = \sqrt{(-4)^2 + (-3)^2} = \sqrt{25} = 5 \quad \alpha = \arctan \frac{3/4}{1} + \pi$$

BOOL = Booleum = $\{0; 1\} = \{w; F\} = \{\text{True}, \text{False}\}$

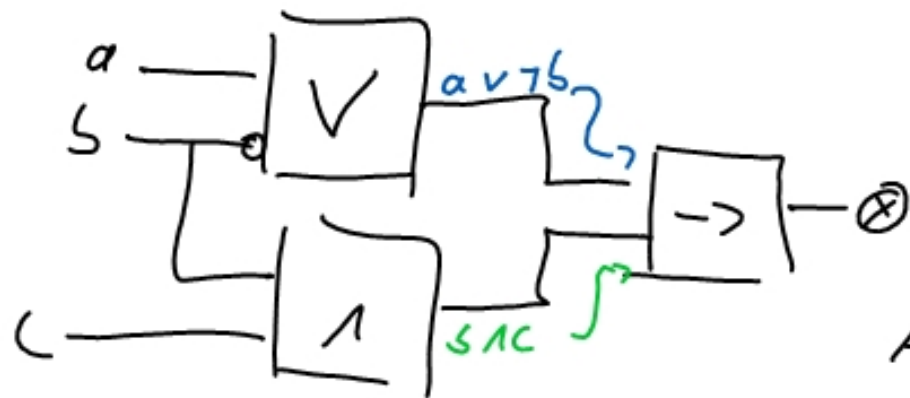


		w	w	w	w	\overline{w}	\overline{w}	\overline{w}	\overline{w}
a		w	w	w	w	\overline{w}	\overline{w}	\overline{w}	\overline{w}
b		w	w	\overline{w}	\overline{w}	w	w	\overline{w}	\overline{w}
c		w	\overline{w}	w	\overline{w}	w	\overline{w}	w	\overline{w}
I	$a \wedge b$	w	w	\overline{w}	\overline{w}	\overline{w}	\overline{w}	\overline{w}	\overline{w}
	$\overline{(a \wedge b)}$	\overline{w}	\overline{w}	w	w	w	w	w	w
II	\overline{b}	\overline{w}	\overline{w}	w	w	\overline{w}	\overline{w}	w	w
	$\overline{b \vee c}$	w	\overline{w}	w	w	w	\overline{w}	w	w
	$\overline{I \leftrightarrow II}$	\overline{w}	w	w	w	w	\overline{w}	w	w

$\overline{(a \wedge b)} \leftrightarrow \overline{b \vee c}$

$E[A(a; b; c)] =$

BOOL³ = $\{ (w, w, w), (F, w, F) \}$



$$(av7b) \rightarrow (b1c)$$

$$A(a;b;c) = av7b \rightarrow b1c$$

a	w	w	w	w	\bar{w}	\bar{w}	\bar{w}	\bar{w}
b	w	w	\bar{w}	\bar{w}	w	w	\bar{w}	\bar{w}
c	w	\bar{w}	w	\bar{w}	w	\bar{w}	w	\bar{w}
\bar{I} $7b$	\bar{w}	\bar{w}	w	w	\bar{w}	\bar{w}	w	w
$av7b$	w	w	w	w	\bar{w}	\bar{w}	w	w
\bar{II} $b1c$	w	\bar{w}	\bar{w}	\bar{w}	w	\bar{w}	\bar{w}	\bar{w}
$\bar{I} \rightarrow \bar{II}$	w	\bar{w}	\bar{w}	\bar{w}	w	w	\bar{w}	\bar{w}

$$E[A(a;b;c)] = \{ (www), (\bar{w}ww), (\bar{w}w\bar{w}) \}$$