

<p>a</p> $\varphi \stackrel{\text{def}}{=} \top, \chi \stackrel{\text{def}}{=} \llbracket x_1 \in [0, 2] \rrbracket \wedge \llbracket x_2 \in [0, 3] \rrbracket$	<p>c</p> $\varphi^*(\mathbf{x}, \mathbf{A} \cup \mathbf{B}) \stackrel{\text{def}}{=} \varphi \wedge \chi \wedge B_1 \leftrightarrow (x_1 \geq 1) \wedge \\ B_2 \leftrightarrow (x_2 \geq 1) \wedge B_3 \leftrightarrow (x_2 \geq 2)$	<p>e</p> <table border="1"> <thead> <tr> <th>Assignment</th><th>Range</th><th>w</th></tr> </thead> <tbody> <tr> <td>$\{A_1, A_2, B_1, B_2, B_3\}$</td><td>$\llbracket x_1 \in [1, 2] \rrbracket, \llbracket x_2 \in [2, 3] \rrbracket$</td><td>$x_1^2 x_2$</td></tr> <tr> <td>$\{A_1, A_2, B_1, B_2, \neg B_3\}$</td><td>$\llbracket x_1 \in [1, 2] \rrbracket, \llbracket x_2 \in [1, 2] \rrbracket$</td><td>$x_1^2 x_2$</td></tr> <tr> <td>$\{A_1, A_2, B_1, \neg B_2, \neg B_3\}$</td><td>$\llbracket x_1 \in [1, 2] \rrbracket, \llbracket x_2 \in [0, 1] \rrbracket$</td><td>$x_1^3 x_2$</td></tr> <tr> <td>$\{A_1, A_2, 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