

b) $\{ ? - \text{member}(4, [2, 3]) \}$

$\downarrow X/4, Y/2, Xs/[3]$

$\{ ? - \text{member}(4, [3]) \}$

\downarrow
 \Downarrow

c) $\{ ? - \text{member}(X, [2, 3]), X=4 \}$

\swarrow
 $X/2, Xs/3$

\downarrow

$\{ ? - \text{member}(2, [2|3]), 2=4 \}$

\swarrow
 \Downarrow

\searrow $X/X1, Y/2, Xs/[3]$

$\{ ? - \text{member}(X1, [3]), X1=4 \}$

$\downarrow X1/3$

$\{ ? - \text{member}(3, [3]), 3=4 \}$

\downarrow
 \Downarrow

q1

$? - \text{member}(X, [2, 3]).$

$\swarrow X/2, Xs/3$

$? - \text{member}(2, [2, 3]).$

\downarrow

$\square X = 2$

$\searrow X/X1, Y/2, Xs/[3]$

$? - \text{member}(X1, [3]).$

$\downarrow X1/3$

$? - \text{member}(3, [3, []]).$

\downarrow

$\square X = 3$