

2.2

$$x = \pm (0.1 e_{-2} e_{-3} e_{-4})_2 * 2^{\pm c} \qquad e_{-2}, e_{-3}, e_{-4}, c \in \{0, 1\}$$

	2^{-1}	2^0	2^1
0.1 000	$\frac{8}{32}$	$\frac{8}{16}$	1
0.1 001	$\frac{9}{32}$	$\frac{9}{16}$	$\frac{9}{8}$
0.1 010	$\frac{10}{32}$	$\frac{10}{16}$	$\frac{10}{8}$
0.1 011	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{8}$
0.1 100	$\frac{12}{32}$	$\frac{12}{16}$	$\frac{12}{8}$
0.1 101	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{8}$
0.1 110	$\frac{14}{32}$	$\frac{14}{16}$	$\frac{14}{8}$
0.1 111	$\frac{15}{32}$	$\frac{15}{16}$	$\frac{15}{8}$

$$[A, B] = \left[\frac{8}{32}, \frac{60}{32} \right]$$

