11.7 1)

$$\left.\begin{array}{l} A=[\alpha,\beta] \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left[f(\alpha),f(\beta)\right]$$

11.7 2)

$$\left.\begin{array}{l} A=(\alpha,\beta) \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to\alpha^+} f(x),\lim\limits_{x\to\beta^-} f(x)\right)$$

11.7 3)

$$\left.\begin{array}{l} A=[\alpha,\beta) \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left[f(\alpha),\lim\limits_{x\to\beta^-} f(x)\right)$$

11.7 4)

$$\left.\begin{array}{l} A=(\alpha,\beta] \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to\alpha^+} f(x),f(\alpha)\right]$$

11.7 5)

$$\left.\begin{array}{l} A=[\alpha,+\infty) \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left[f(\alpha),\lim\limits_{x\to+\infty} f(x)\right)$$

11.7 6)

$$\left.\begin{array}{l} A=(-\infty,\alpha] \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to-\infty} f(x),f(\alpha)\right]$$

11.7 7)

$$\left.\begin{array}{l} A=(\alpha,+\infty) \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to\alpha} f(x),\lim\limits_{x\to+\infty} f(x)\right)$$

11.7 8)

$$\left.\begin{array}{l} A=(-\infty,\alpha) \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to-\infty} f(x),\lim\limits_{x\to\alpha} f(x)\right)$$

11.7 9)

$$\left.\begin{array}{l} A=R \\ f\nearrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to-\infty} f(x),\lim\limits_{x\to+\infty} f(x)\right)$$

11.7 10)

$$\left.\begin{array}{l} A=[\alpha,\beta] \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left[f(\beta),f(\alpha)\right]$$

11.7 11)

$$\left.\begin{array}{l} A=(\alpha,\beta) \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left(\lim\limits_{x\to\beta^-} f(x),\lim\limits_{x\to\alpha^+} f(x)\right)$$

11.7 12)

$$\left.\begin{array}{l} A=[\alpha,\beta) \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left(\lim_{x\to\beta^-} f(x), f(\alpha)\right]$$

11.7 13)

$$\left.\begin{array}{l} A=(\alpha,\beta] \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left[f(\beta), \lim_{x\to\alpha^+} f(x)\right)$$

11.7 14)

$$\left.\begin{array}{l} A=[\alpha,+\infty) \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left(\lim_{x\to+\infty} f(x), f(\alpha)\right]$$

11.7 15)

$$\left.\begin{array}{l} A=(-\infty,\alpha] \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left[f(\alpha), \lim_{x\to-\infty} f(x)\right)$$

11.7 16)

$$\left.\begin{array}{l} A=(\alpha,+\infty) \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left(\lim_{x\to+\infty} f(x), \lim_{x\to\alpha^+} f(x)\right)$$

11.7 17)

$$\left.\begin{array}{l} A=(-\infty,\alpha) \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left(\lim_{x\to\alpha^+} f(x), \lim_{x\to-\infty} f(x)\right)$$

11.7 18)

$$\left.\begin{array}{l} A=R \\ f\searrow \end{array}\right\} \Rightarrow f(A)=\left(\lim_{x\to+\infty} f(x), \lim_{x\to-\infty} f(x)\right)$$