

$$3) X = [4, 10] \cup \{11, 12\} \quad A_c(X) = [4, 10]$$

$$Y = \mathbb{Z}$$

$$A_c(\mathbb{Z}) = \{-\infty, +\infty\}$$

$$4) f(x) = |x|, \quad g(x) = x \quad h(x) = \sin x$$

$$\sup(f) = +\infty, \quad \inf(f) = 0$$

$$\sup(g) = +\infty, \quad \inf(g) = -\infty$$

$$\sup(h) = 1, \quad \inf(h) = -1$$