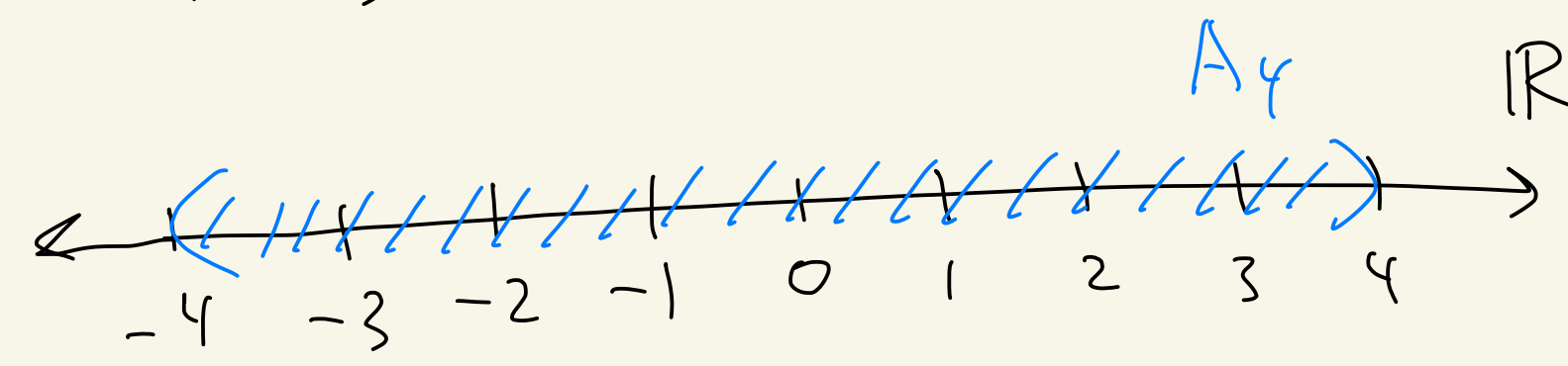
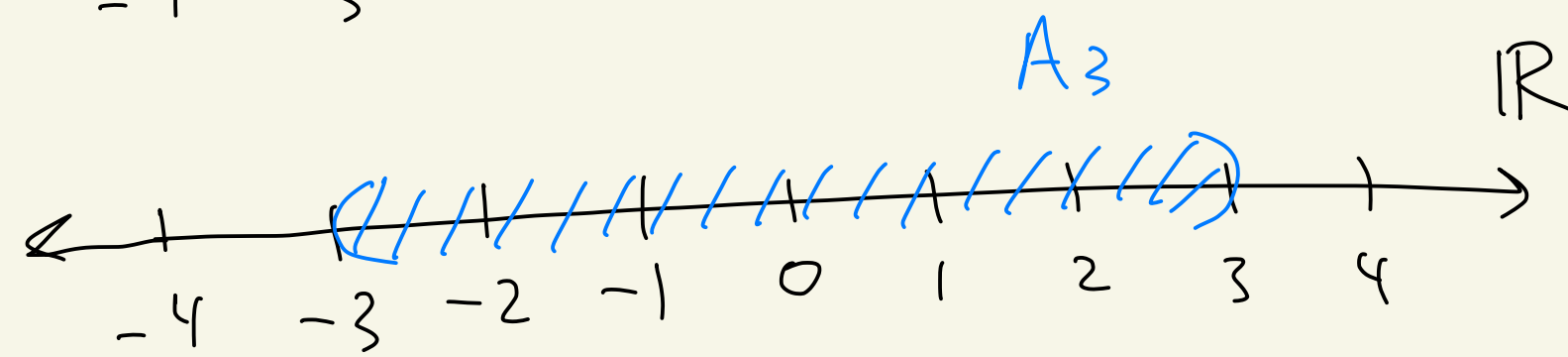
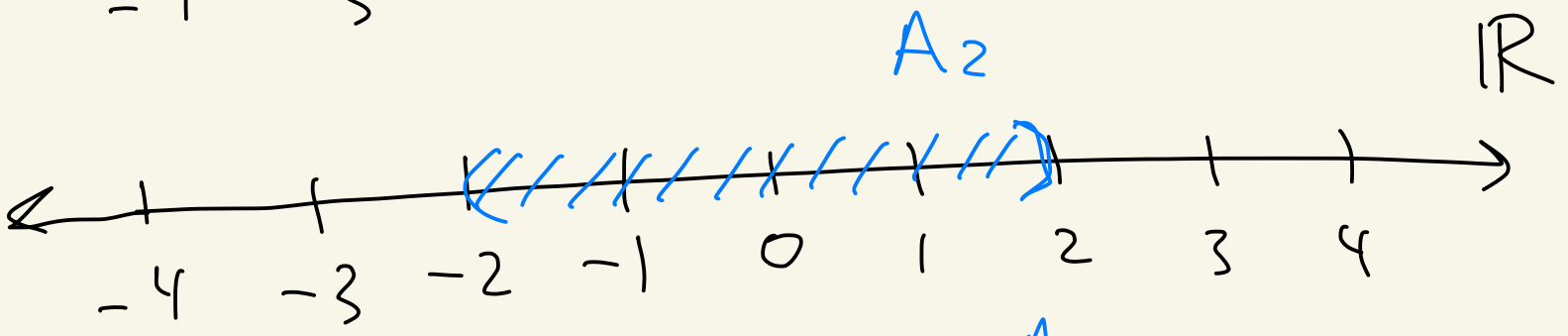
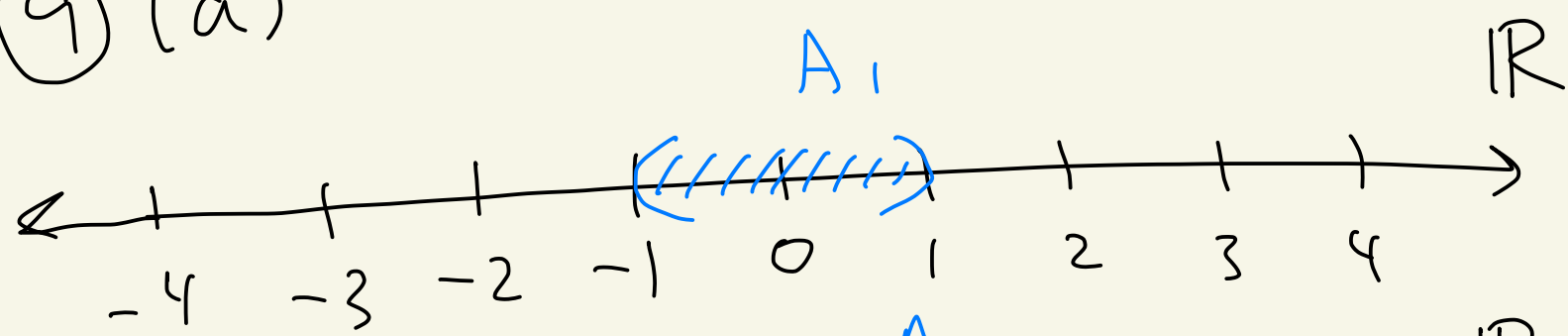


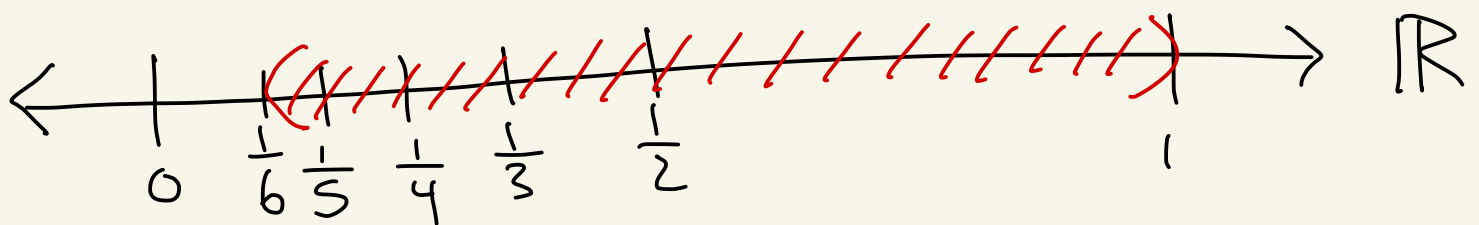
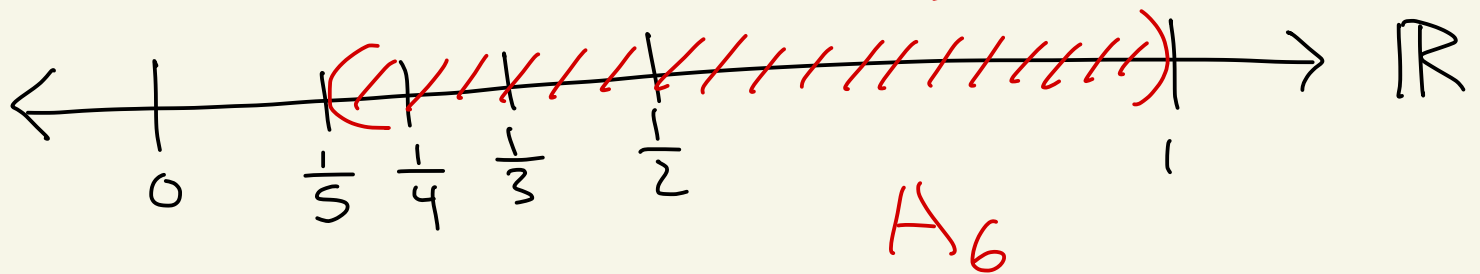
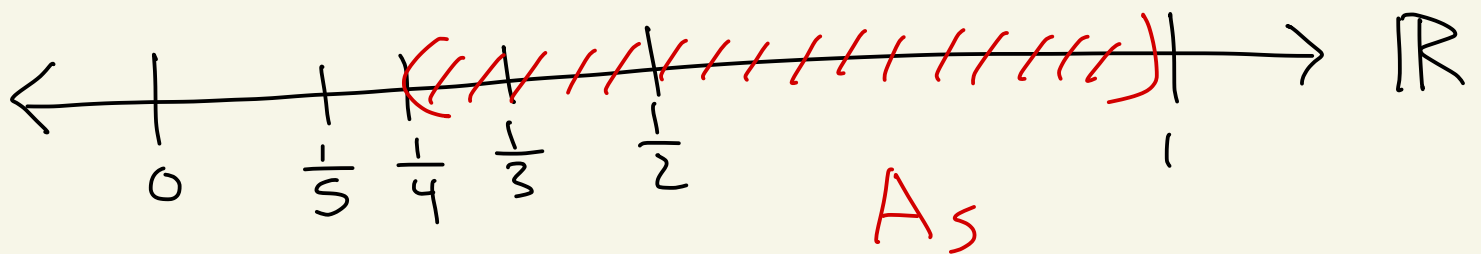
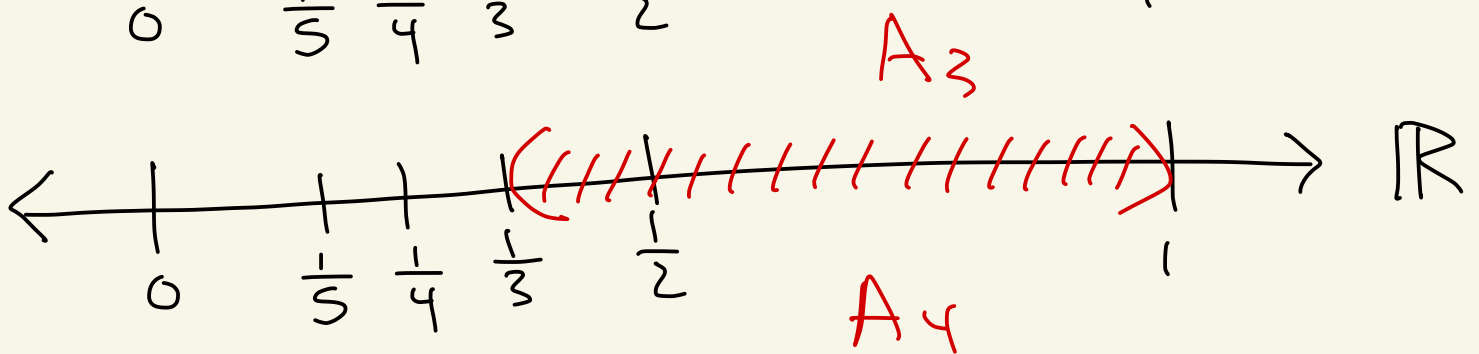
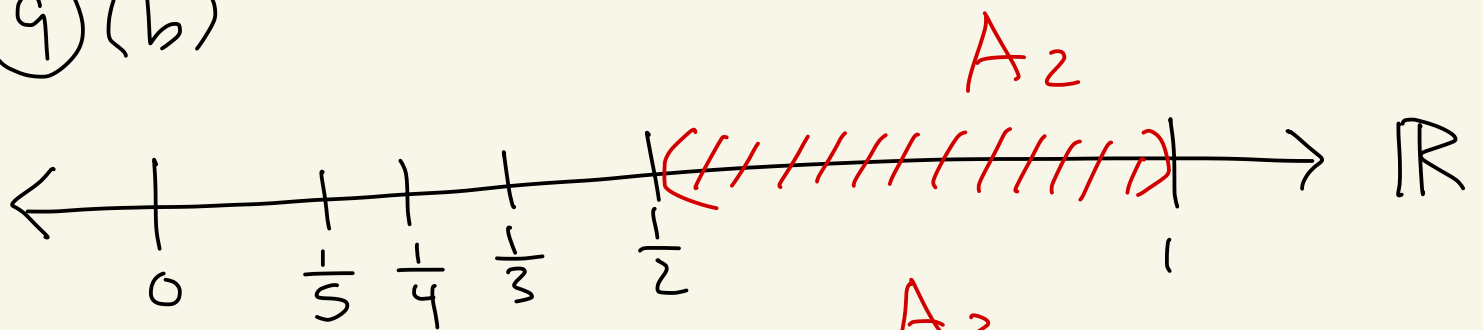
9 (a)



$$\bigcap_{n=1}^{\infty} A_n = (-1, 1) = A_1$$

$$\bigcup_{n=1}^{\infty} A_n = \mathbb{R}$$

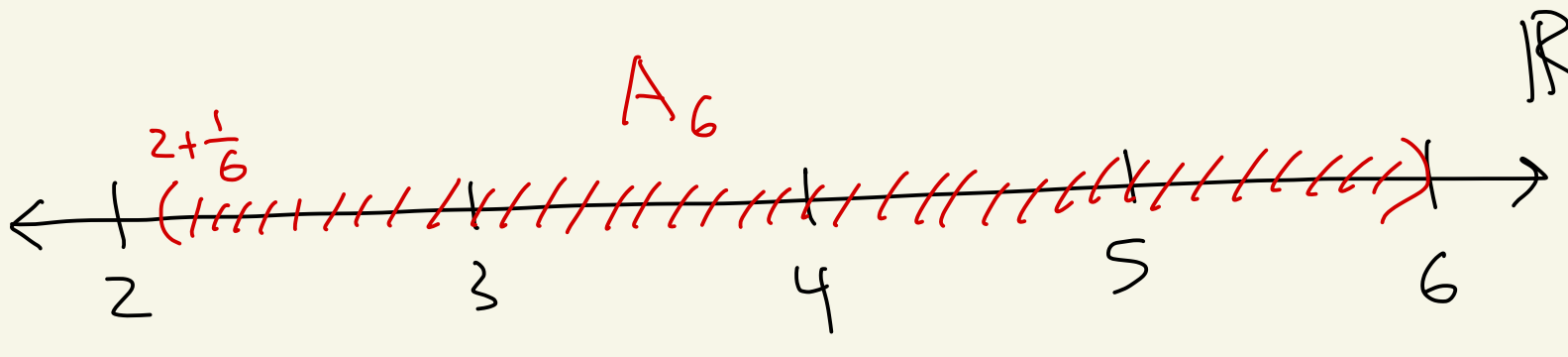
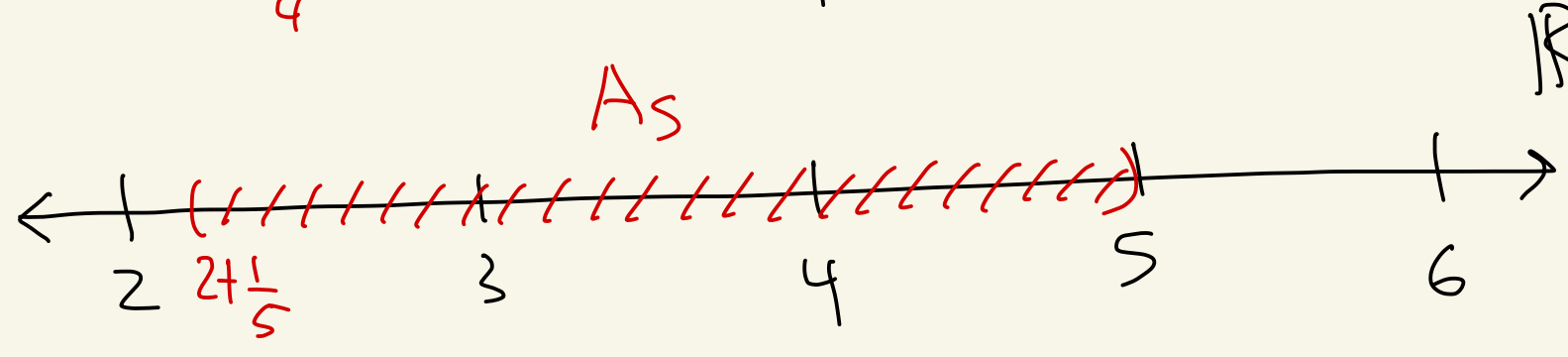
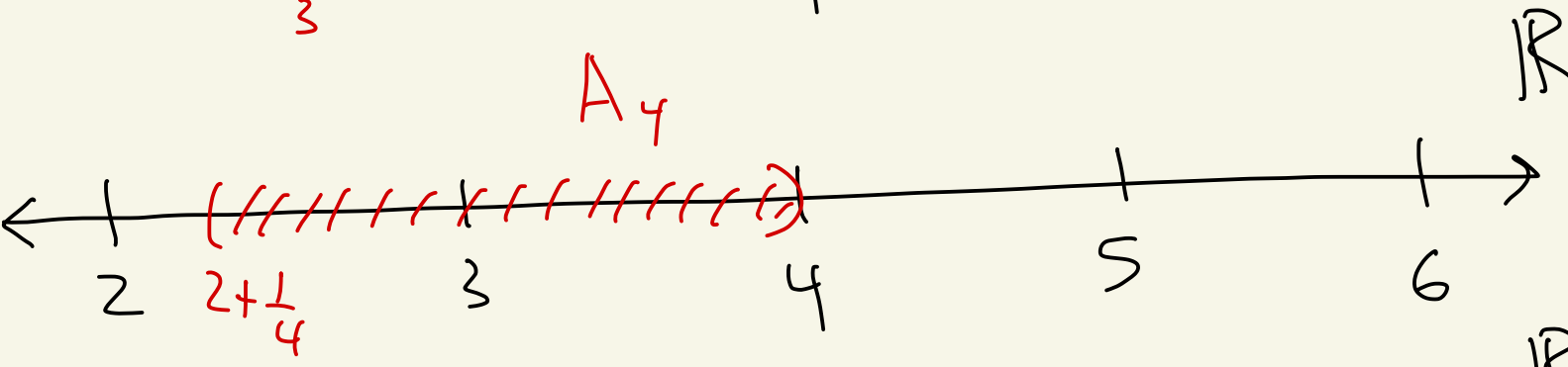
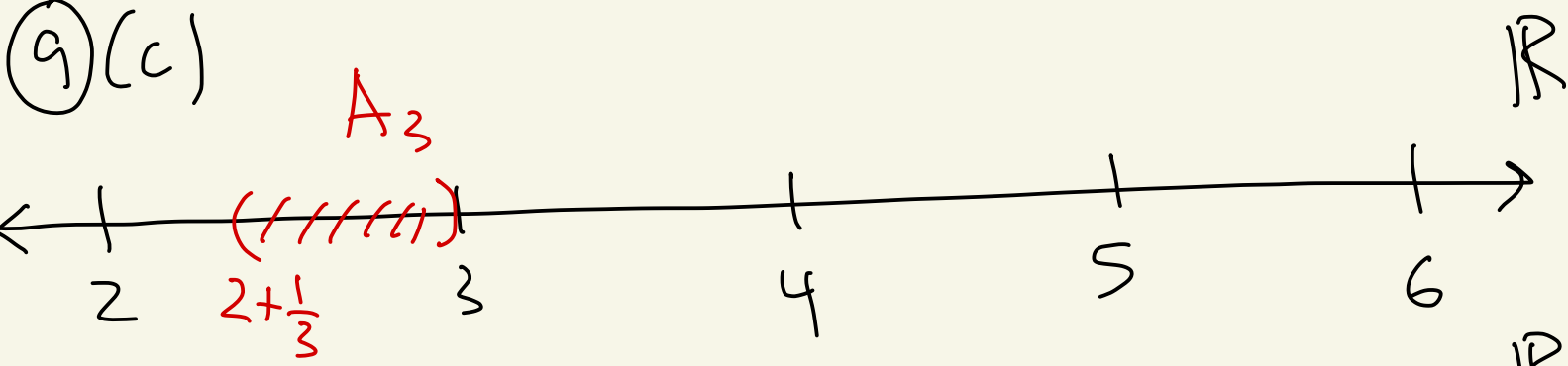
⑨ (b)



$$\bigcap_{n=2}^{\infty} A_n = \left(\frac{1}{2}, 1\right) = A_2$$

$$\bigcup_{n=2}^{\infty} A_n = (0, 1)$$

9(c)



$$\bigcap_{n=3}^{\infty} A_n = \left(2 + \frac{1}{3}, 3 \right) = \left(\frac{7}{3}, 3 \right) = A_3$$

$$\bigcup_{n=3}^{\infty} A_n = (2, \infty)$$