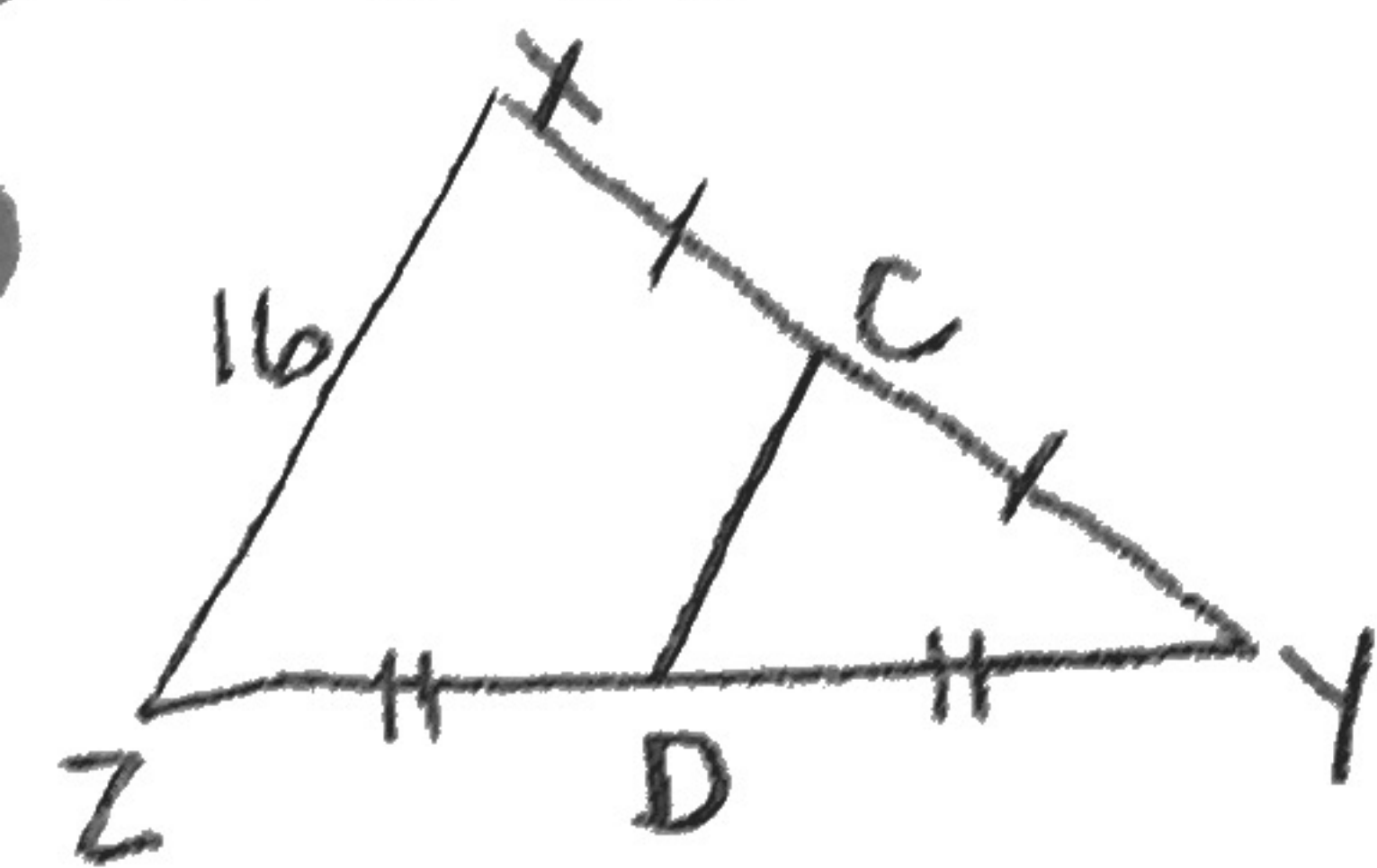
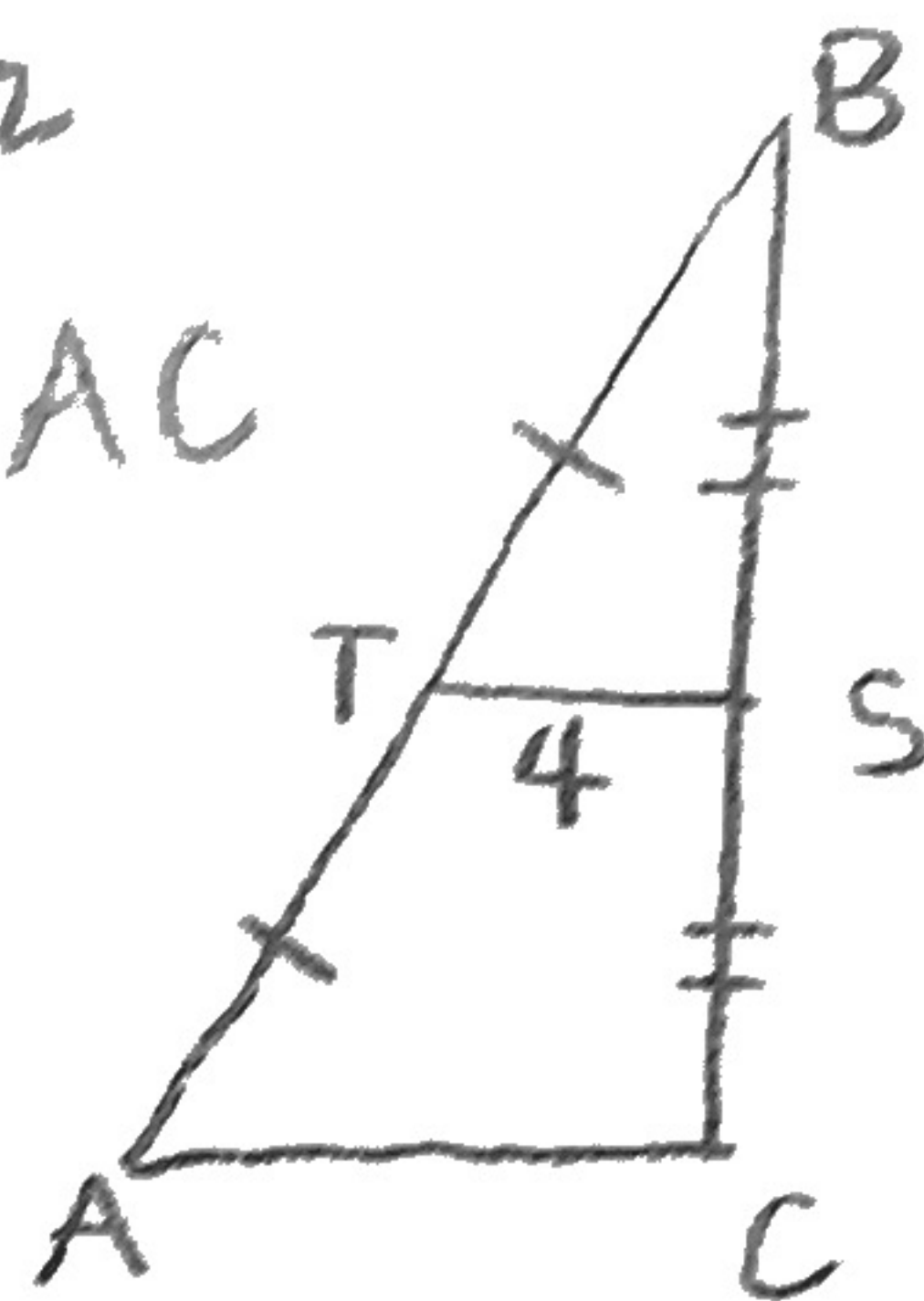


# Practice on Midsegment Theorem

① Find  $CD$



② Find  $AC$



Use  $\triangle ABC$ , where  $Q$ ,  $R$ , and  $S$  are midpoints of the sides.

③  $\overline{AC} \parallel$  \_\_\_\_\_

④  $\overline{SQ} \parallel$  \_\_\_\_\_

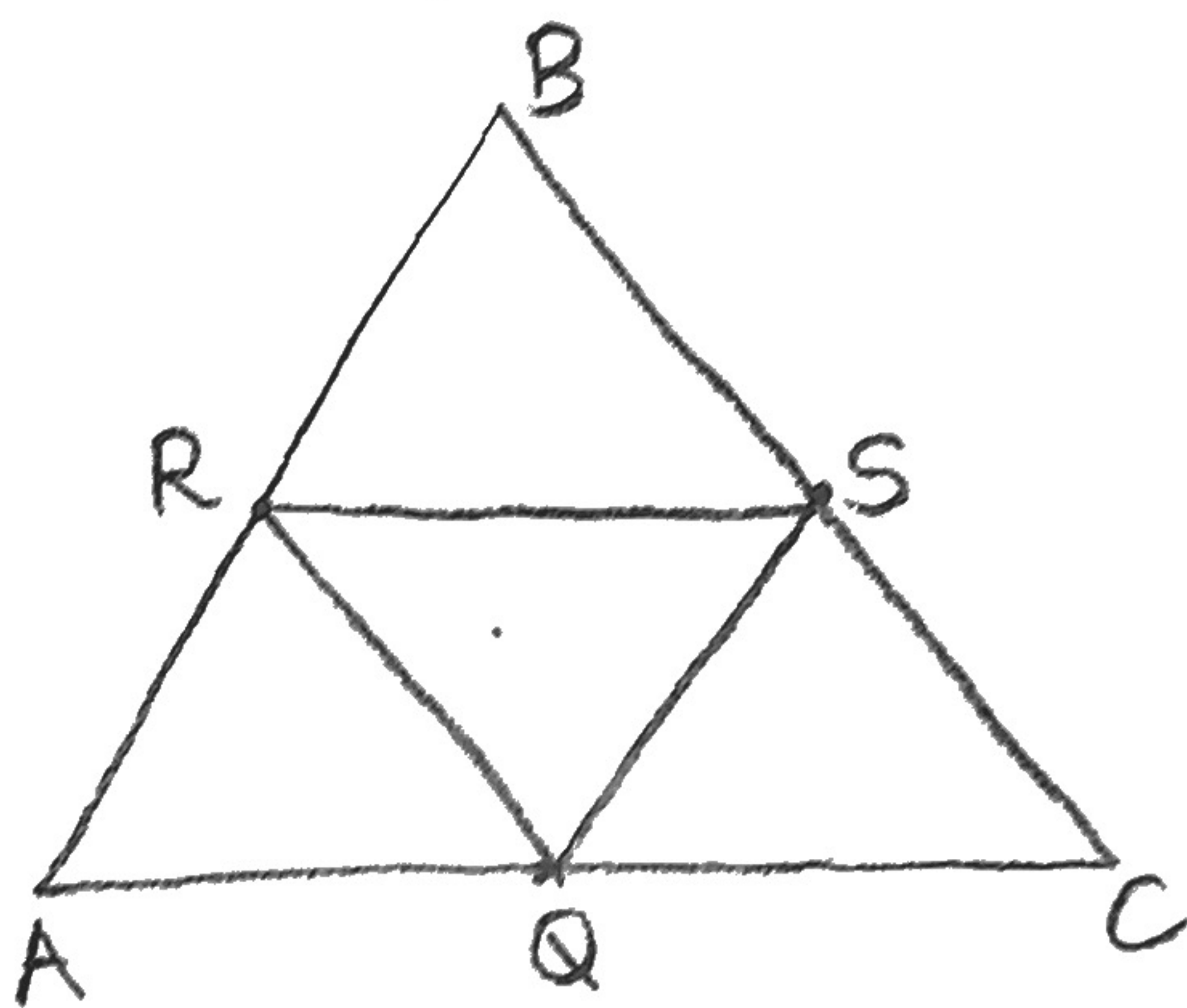
⑤  $\overline{RQ} \parallel$  \_\_\_\_\_

⑥ If  $\overline{AC} = 25$ , then  $\overline{RS} =$  \_\_\_\_\_

⑦ If  $\overline{RQ} = 9$ , then  $\overline{BC} =$  \_\_\_\_\_

⑧ If  $\overline{AR} = 11$ , then  $\overline{QS} =$  \_\_\_\_\_

⑨ If  $\overline{RQ} = 5$ ,  $\overline{QS} = 7$ , and  $\overline{RS} = 9$ , what is the perimeter of  $\triangle ABC$ ?



⑩ If  $\overline{RS} = 3x + 5$  and  $\overline{AC} = x + 20$ , then  $\overline{RS} =$  \_\_\_\_\_

⑪ If  $\overline{AB} = 6x + 12$  and  $\overline{QS} = 2x + 7$ , then  $\overline{QS} =$  \_\_\_\_\_

⑫ If  $\overline{RQ} = 5x + 1$  and  $\overline{BC} = 8x + 15$ , then  $\overline{RQ} =$  \_\_\_\_\_