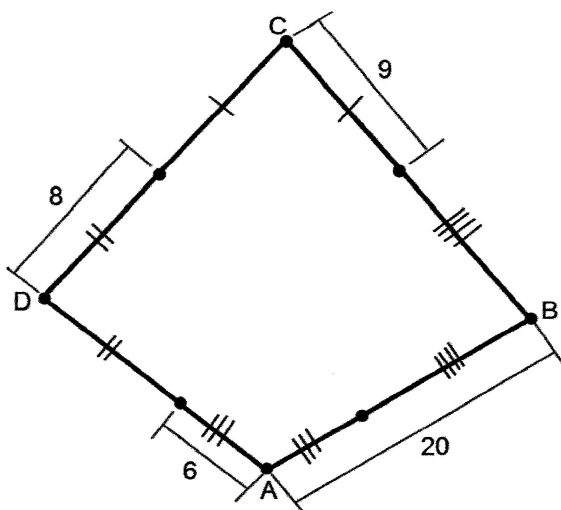


1. In Quadrilateral $ABCD$ the points on each side divide each side into two parts such that the tic marks indicate congruent lengths.

Find the perimeter of $ABCD$.

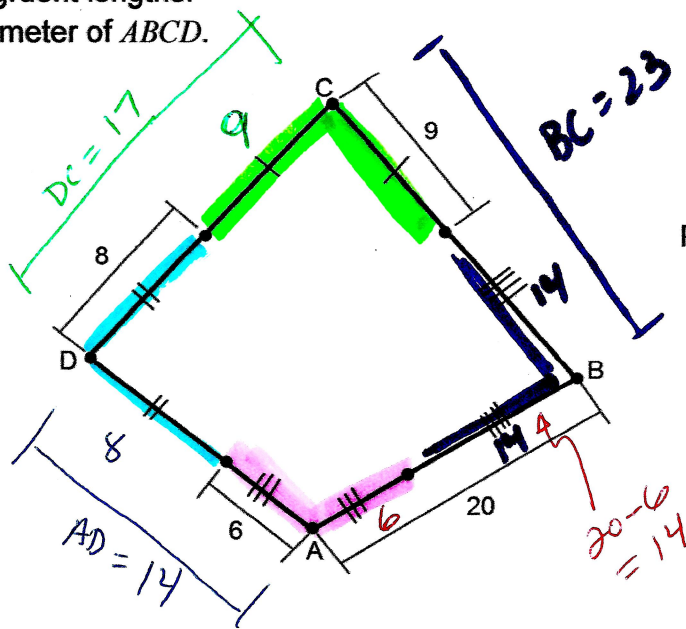


Perimeter =

2. You are on top of a lighthouse and see a ship in the distance with an angle of depression of 23° . If the lighthouse is 110 feet tall find the distance the ship is from the lighthouse to the nearest whole foot.

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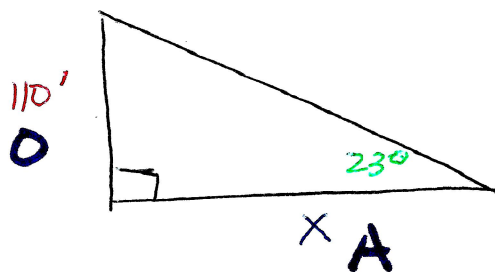
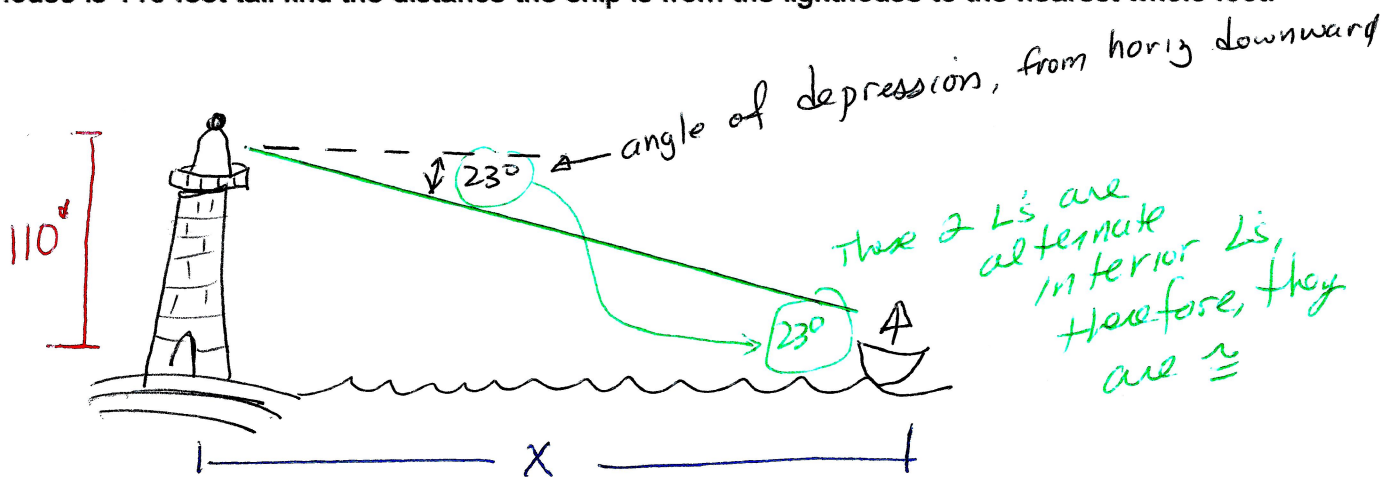


$$\text{Perimeter} = AB + BC + CD + DA$$

$$20 + 23 + 17 + 14$$

$$P = 74$$

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SOHCAHTOA

$$\tan 23^\circ = \frac{110}{X}$$

$$X = 259. \text{ft}$$