

Handout 2: If It's Not A Right Angle...

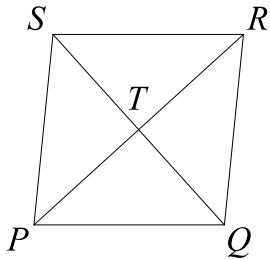


Figure 1

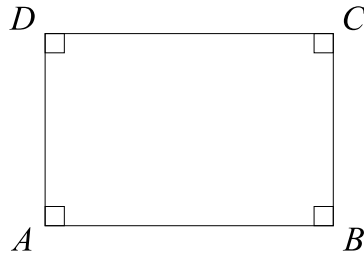


Figure 2

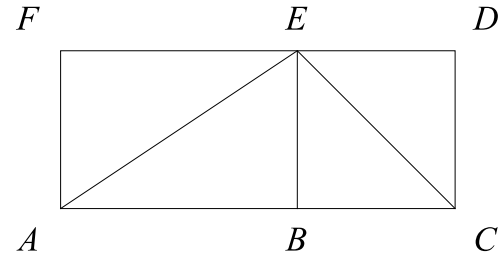


Figure 3

Use Figure 1 for questions 1-4.

1. If $SR = 3$ mm and $PS = 4$ mm, what is the length of \overline{SQ} ?
2. How do we know that $\triangle SRT \cong \triangle QPT$?
3. If $TQ = 20$ ft and $PQ = 24$ ft, what is the perimeter of $PQRS$?
4. If $PR = 13$ m and $m\angle QPR = 67.4^\circ$, what is the perimeter of $PQRS$?

Use Figure 2 for questions 5-7.

5. If $AE = 2$ mi, what is the perimeter of $ABCD$?
6. If the perimeter of $ABCD$ is 44 in, what is the length of \overline{AC} ?
7. What is the measure of $\angle ABD$ if $m\angle AED = 90^\circ$?

Use Figure 3 for questions 8-10.

8. $ABEF$ is a rectangle attached to square $BCDE$. If $AE = 29$ yd and $AB = 21$ yd, what is the length of \overline{EC} ?
9. If $BC = 10$ cm, what is the measure of $\angle BCE$?
10. If $DC = 10$ cm and $AB = 15$ cm, what is the measure of $\angle BAE$?