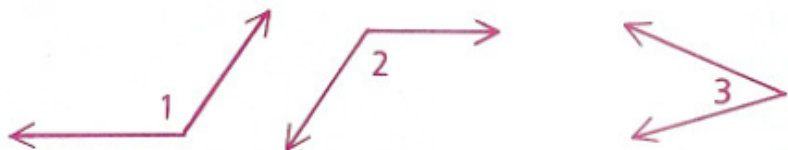


Homework

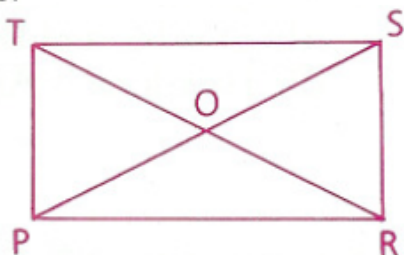
p. 14-16: 3, 6, 8, 13, 15,
17, 21

3 Which two of the angles below appear to be congruent?

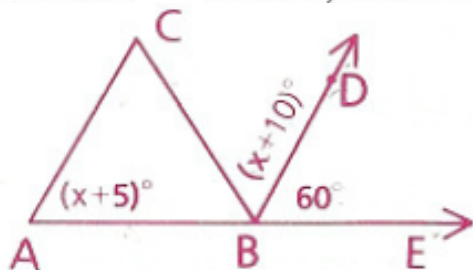


6 There is a right angle at each corner of PRST. (Later in the course you will learn that PRST is a rectangle.)

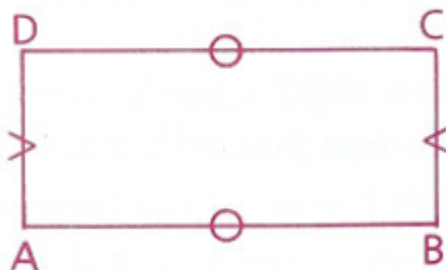
- a If $\angle TPO = 60^\circ$, how large is $\angle RPO$?
- b If $\angle PTO = 70^\circ$, how large is $\angle STO$?
- c If $\angle TOP = 50^\circ$, how large is $\angle POR$?
- d Classify $\angle TOS$ as acute, right, or obtuse.



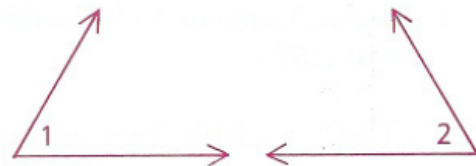
8 If $\angle CBD \cong \angle DBE$, find $m\angle A$.



13 The perimeter of (the distance around) ABCD is 66, and \overline{DC} is twice as long as \overline{CB} . How long is \overline{AB} ?



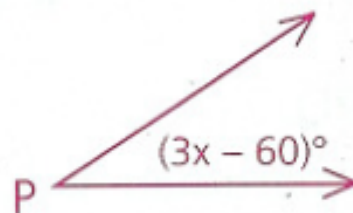
15 Given: $\angle 1 \cong \angle 2$,
 $m\angle 1 = x + 14$,
 $m\angle 2 = y - 3$



Solve for y in terms of x .

17 $\angle P$ is acute.

- a What are the restrictions on $m\angle P$?
- b What are the restrictions on x ?



21 Given: $\angle TRS$ is a straight angle.
 $\angle TRX$ is a right angle.
 $m\angle TRS = 2x + 5y$,
 $m\angle XRS = 3x + 3y$



Solve for x and y .