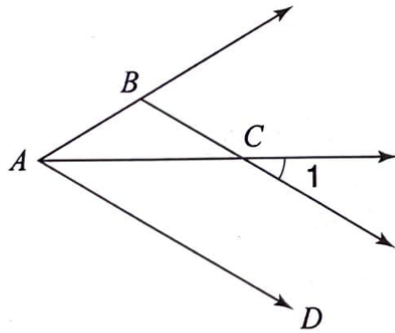


Geometry #11: Angles Formed by Parallel Lines

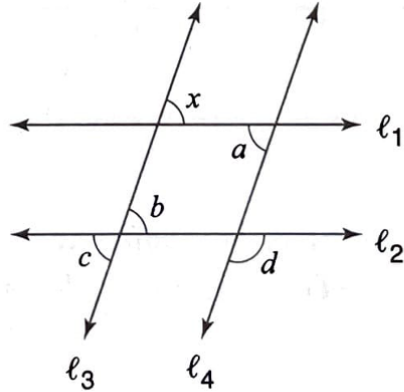
**Big Idea**

4. In the accompanying diagram,  $\overline{AD} \parallel \overline{BC}$  and  $\overline{AC}$  bisects  $\angle BAD$ . If  $m\angle ABC = x$ , what is the measure of  $\angle 1$  in terms of  $x$ ?

- (1)  $90 - x$       (2)  $\frac{90 - x}{2}$       (3)  $90 - \frac{x}{2}$       (4)  $\frac{90 + x}{2}$



Exercise 4



Exercise 5

5. If, in the accompanying diagram,  $l_1 \parallel l_2$  and  $l_3 \parallel l_4$ , then  $\angle x$  is *not* always congruent to which angle?
- (1)  $a$       (2)  $b$       (3)  $c$       (4)  $d$