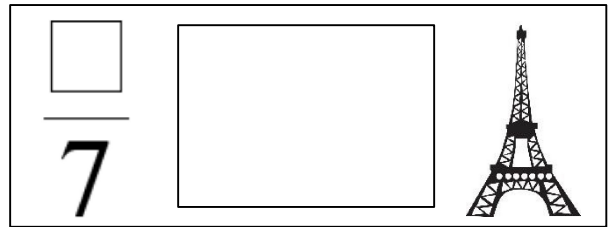


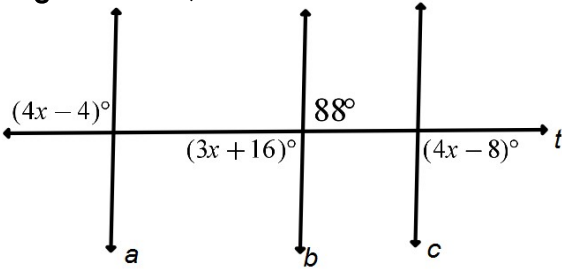


PASSPORT

# Welcome to France! G.2 Parallel Lines



1. According to the information provided in the diagram below, which statement is true?

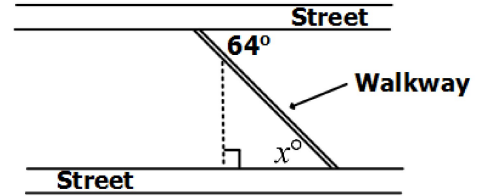


- a.  $a \parallel b$  only
- b.  $a \parallel c$  only
- c.  $b \parallel c$  only
- d. All lines are parallel

2. A diagonal walkway cuts through two parallel streets.

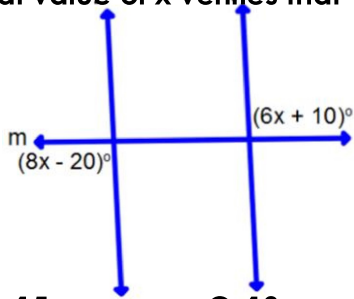
What is the value of  $x$ ?

- A.  $64^\circ$
- B.  $90^\circ$
- C.  $116^\circ$
- D.  $26^\circ$



3. What value of  $x$  verifies that

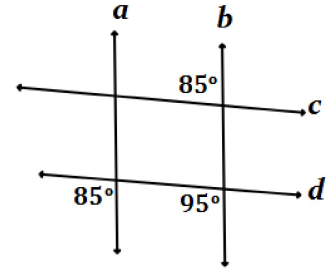
$z \parallel y$ ?



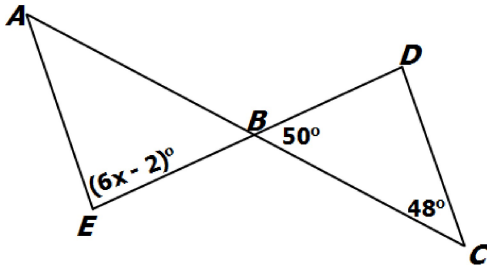
- A. 15
- B. 100
- C. 10
- D. 13.57

4. According to the information provided in the diagram below, which statement is true?

- a.  $a \parallel b$  only
- b.  $c \parallel d$  only
- c.  $a \parallel b$  and  $c \parallel d$
- d. No lines are parallel



5. This figure shows  $\overline{AE}$  and  $\overline{DC}$  intersecting at point B.

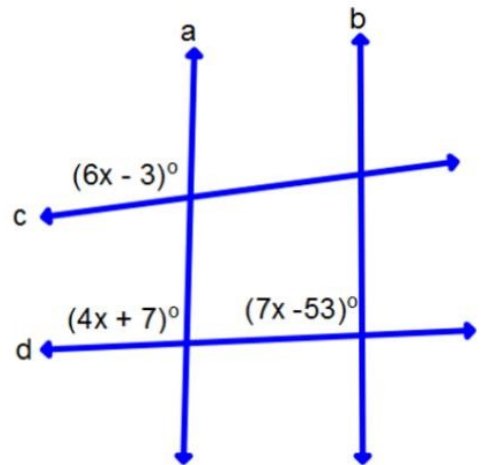


What value of  $x$  proves  $\overline{AE} \parallel \overline{DC}$ ?

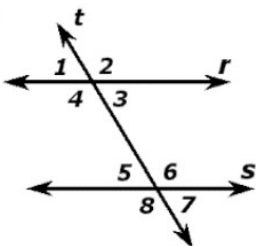
- a. 8.3
- b. 14
- c. 8.7
- d. 82

6. What value of  $x$  will verify that  $a \parallel b$ ?

- A. 20
- B. 20.54
- C. 17.6
- D. 5



7.



Which of the following statements will verify that  $r \parallel s$ ?

- A  $m\angle 4 + m\angle 6 = 180$
- B  $\angle 2 \cong \angle 4$
- C  $\angle 1 \cong \angle 7$
- D  $\angle 3 \cong \angle 6$

## BONUS

Which is the inverse of the following statement?

If  $\frac{x}{y} = z$ , then  $x = yz$ .

- a. If  $\frac{x}{y} \neq z$ , then  $x = yz$ .
- b. If  $x = yz$ , then  $\frac{x}{y} = z$ .
- c. If  $x \neq yz$ , then  $\frac{x}{y} \neq z$ .
- d. If  $\frac{x}{y} \neq z$ , then  $x \neq yz$ .

