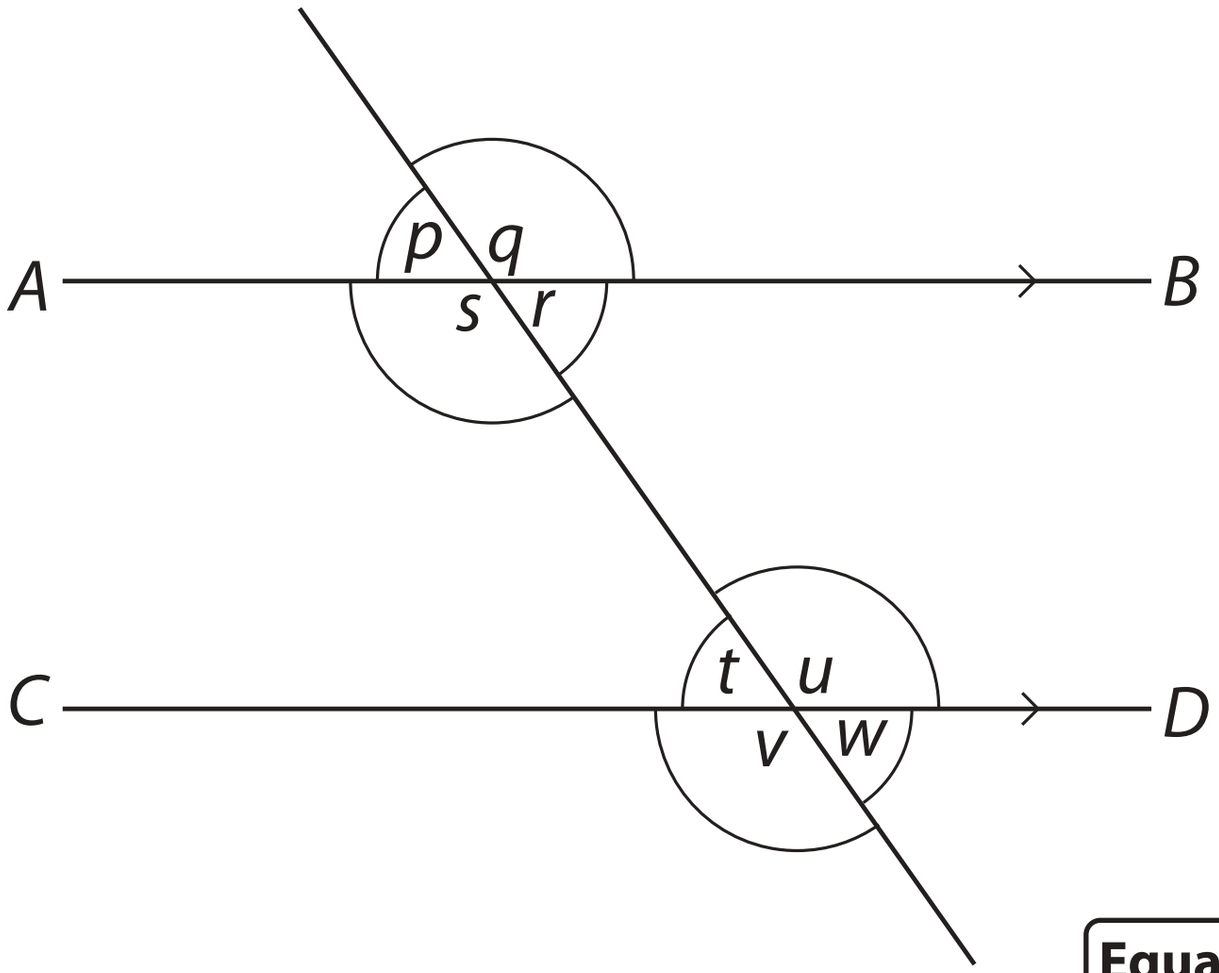
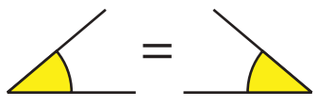
f1 Look at the diagram.



Write down angles that are equal.

Equal angles

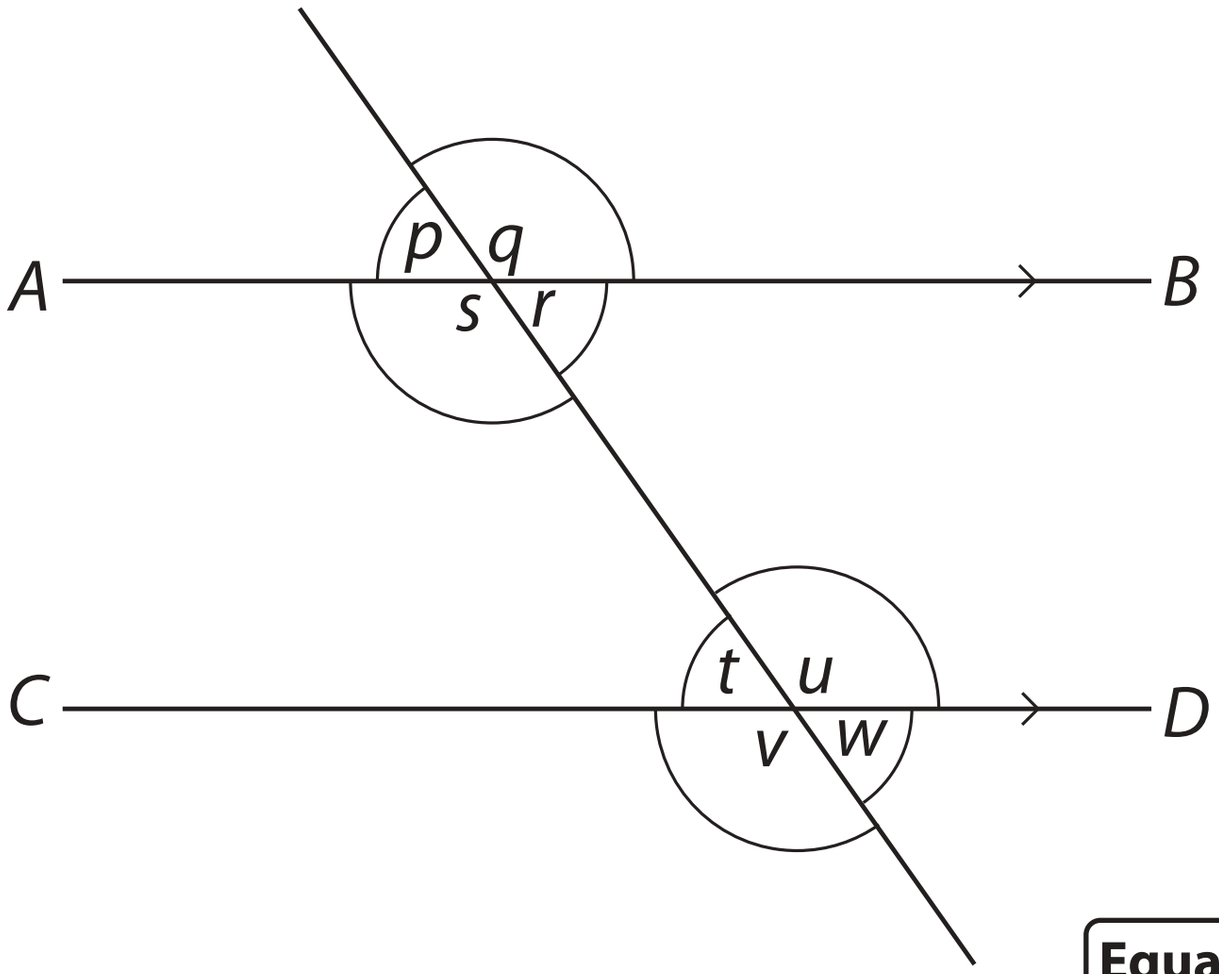


p = ☐ = ☐ = ☐

and

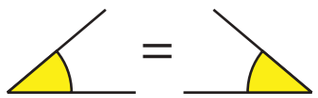
q = ☐ = ☐ = ☐

f1 Look at the diagram.



Write down angles that are equal.

Equal angles



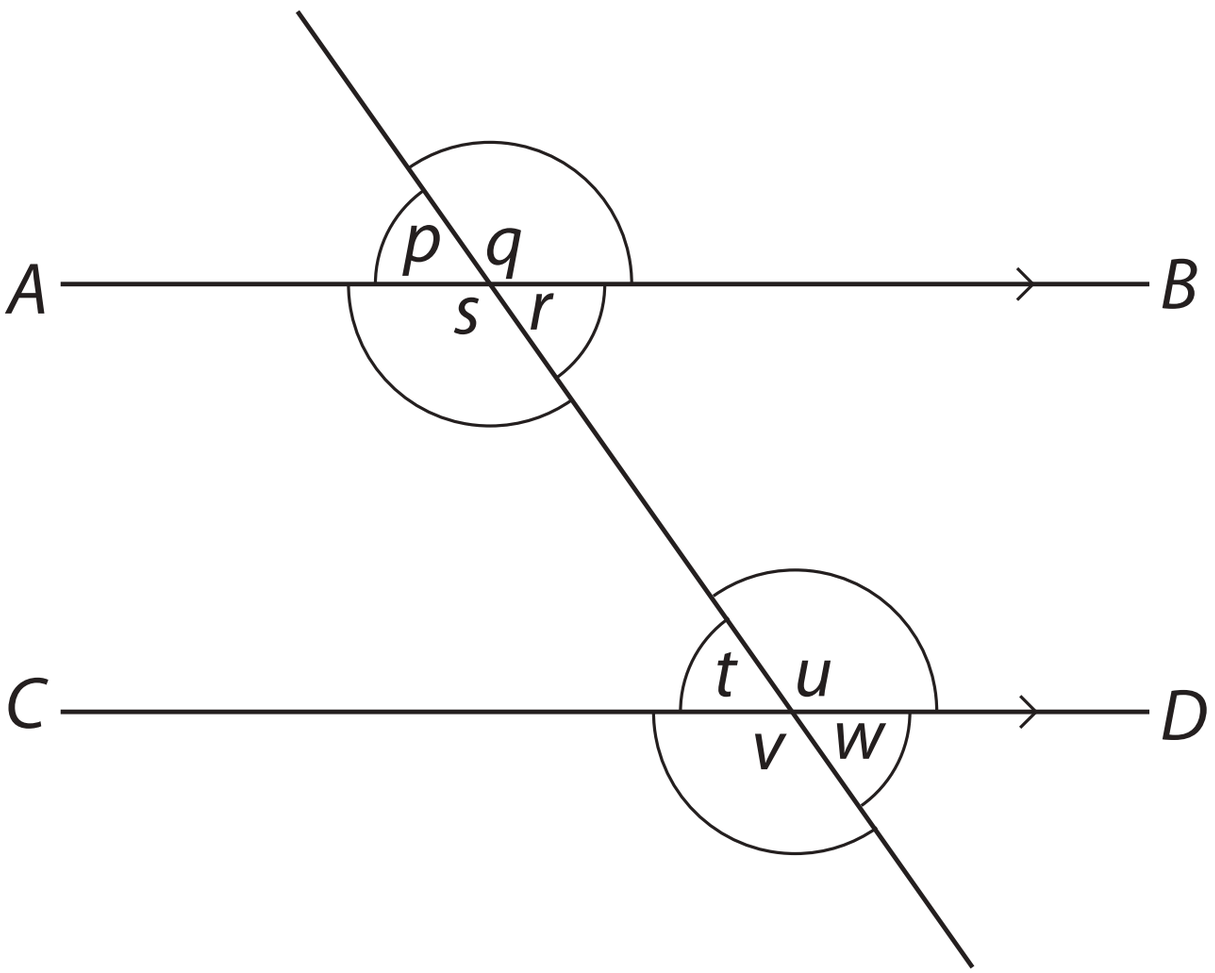
Answer

$p = r = t = w$

and

$q = s = u = v$

f2 Give examples of angles matching the descriptions.



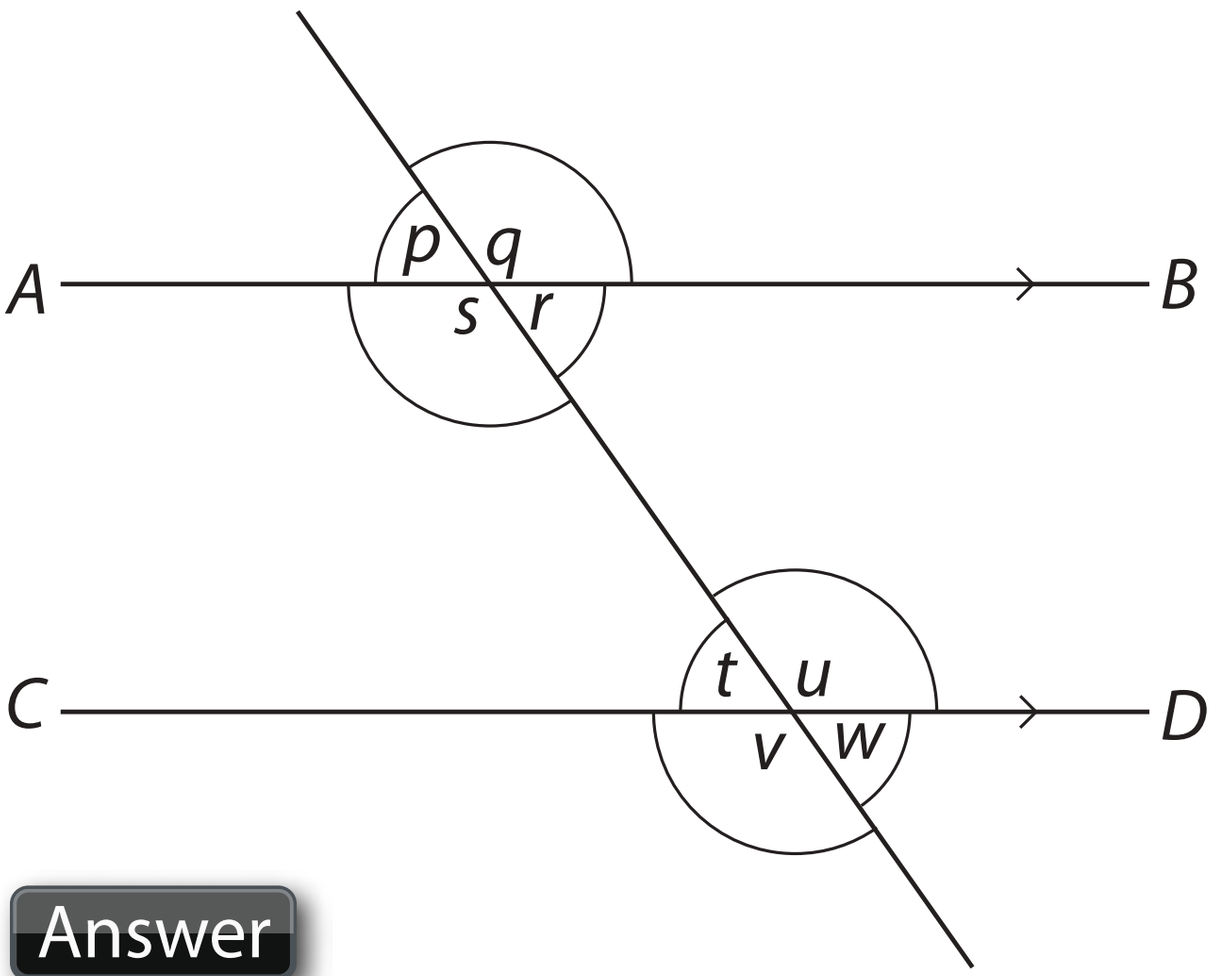
Corresponding

Alternate

Allied

Vertically opposite

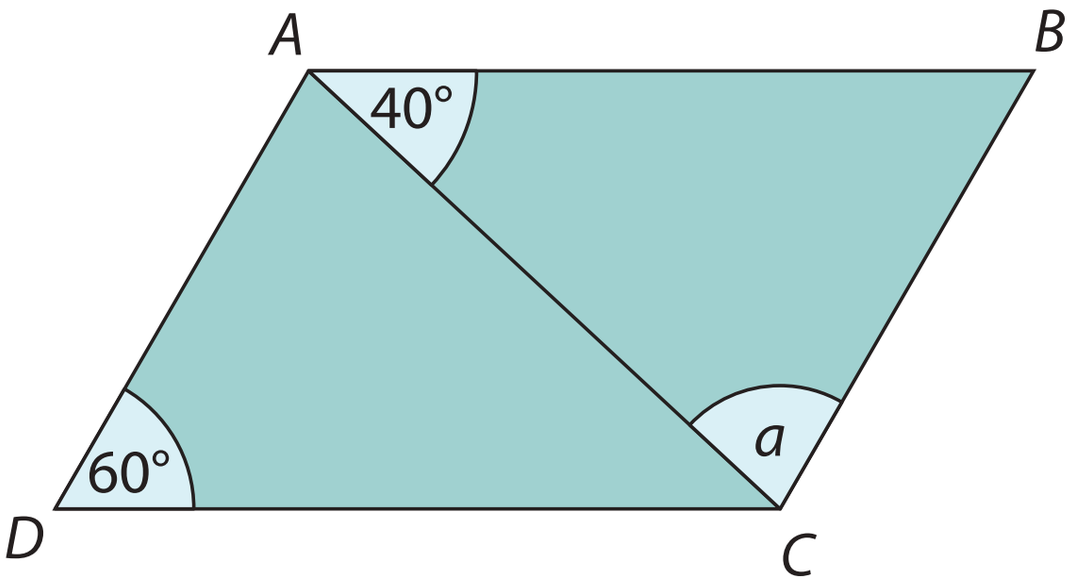
f2 Give examples of angles matching the descriptions.



Answer

Corresponding	*r and w*	*s and v*
Alternate	*s and u*	*r and t*
Allied	*r and w*	
Vertically opposite	*p and r*	*q and s*
	t and w	*u and v*

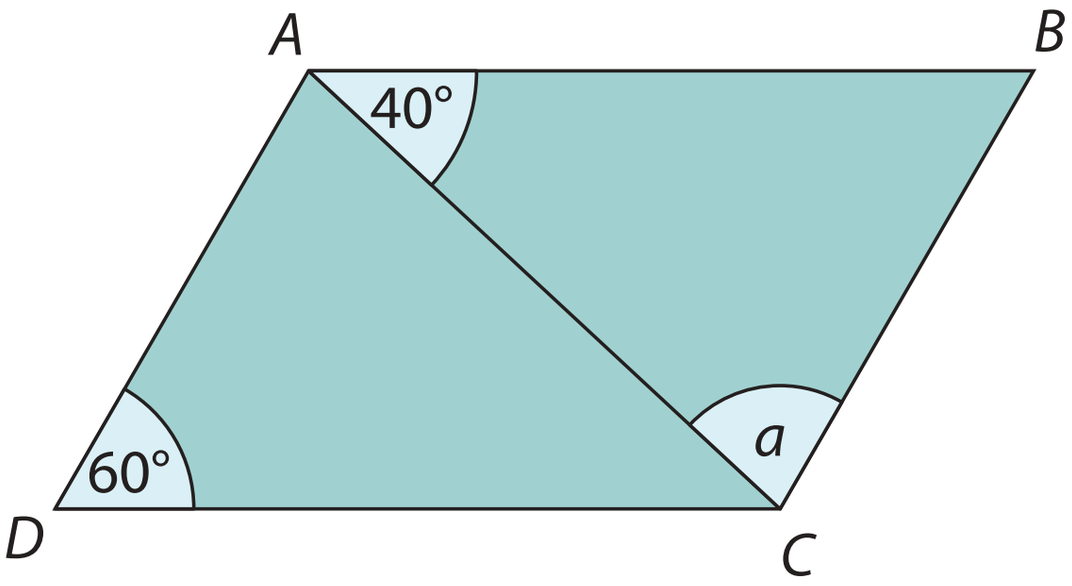
f3 *ABCD* is a parallelogram.



Calculate the size of angle *a*.

a = ☐

f3 *ABCD* is a parallelogram.

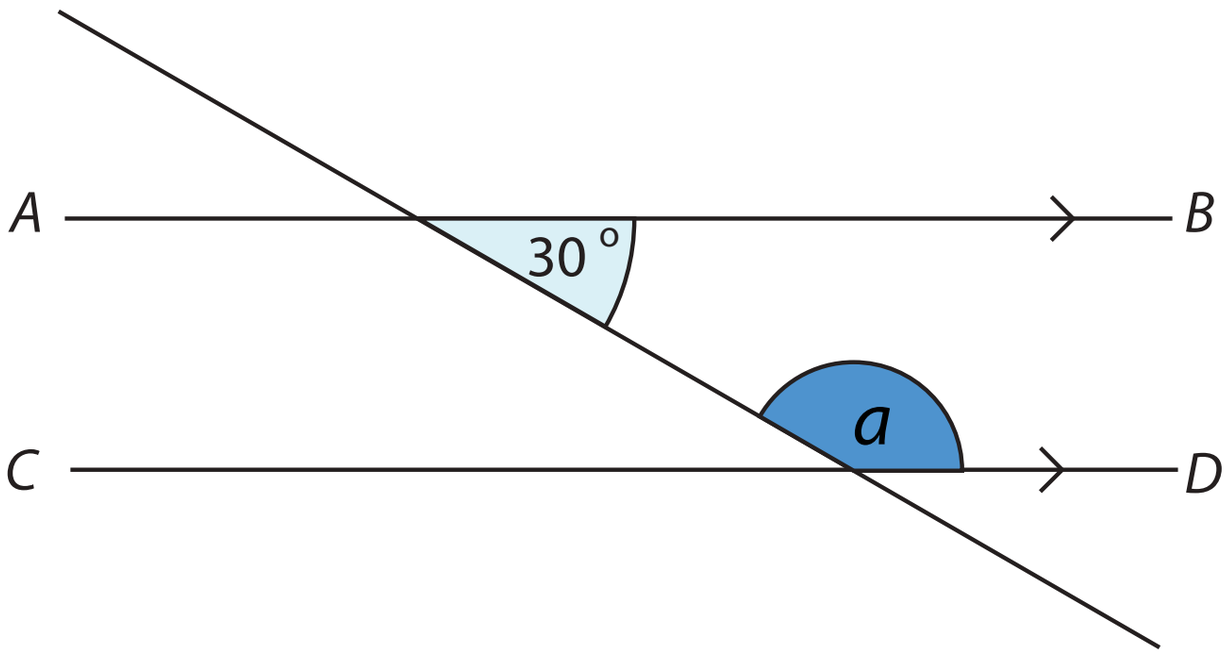


Calculate the size of angle *a*.

a = 80°

Answer

AB is parallel to *CD*.

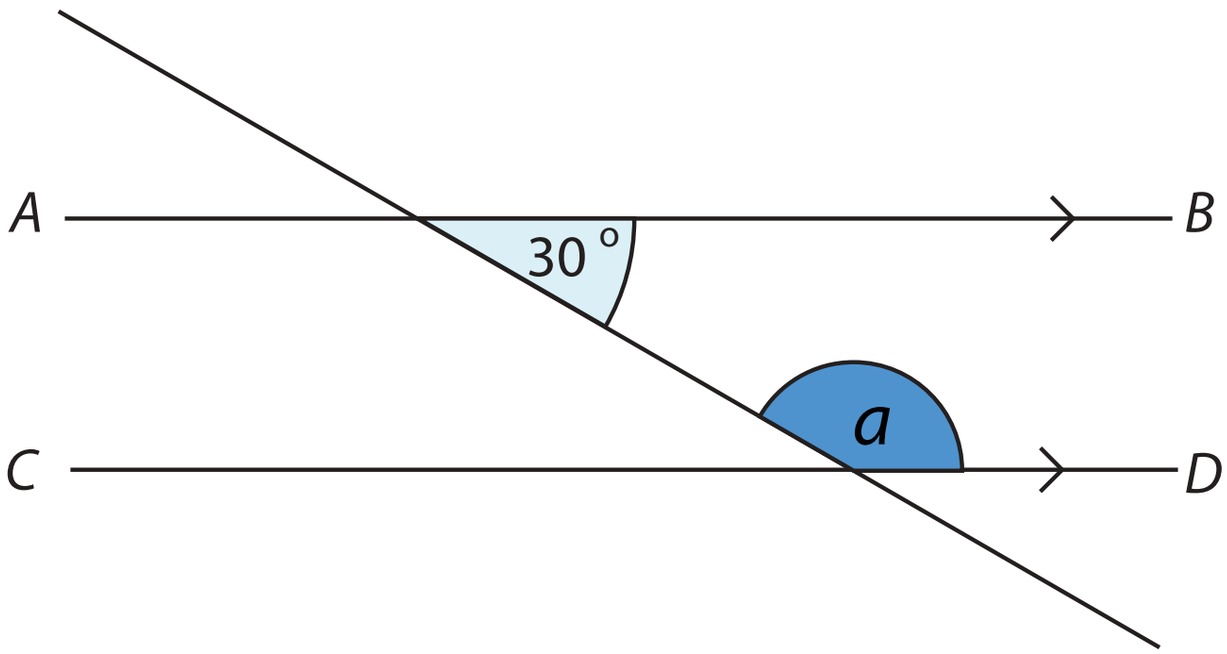


Write down the value of *a*.

Give a reason for your answer.

a = ☐

ev *AB* is parallel to *CD*.



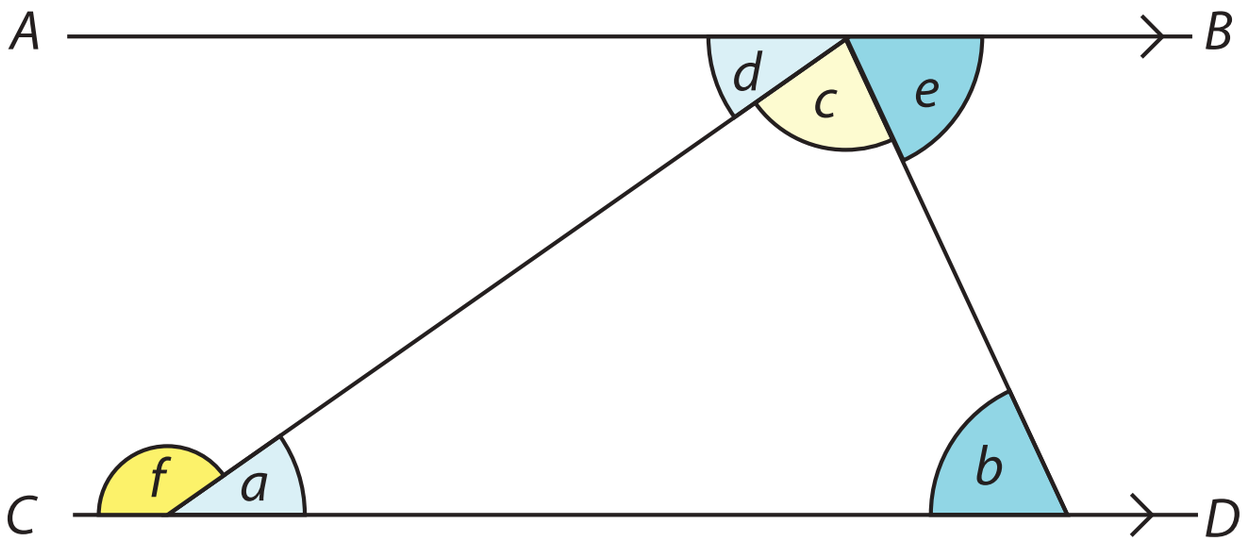
Write down the value of *a*.
Give a reason for your answer.

$a = 150°$, allied angle.

Answer

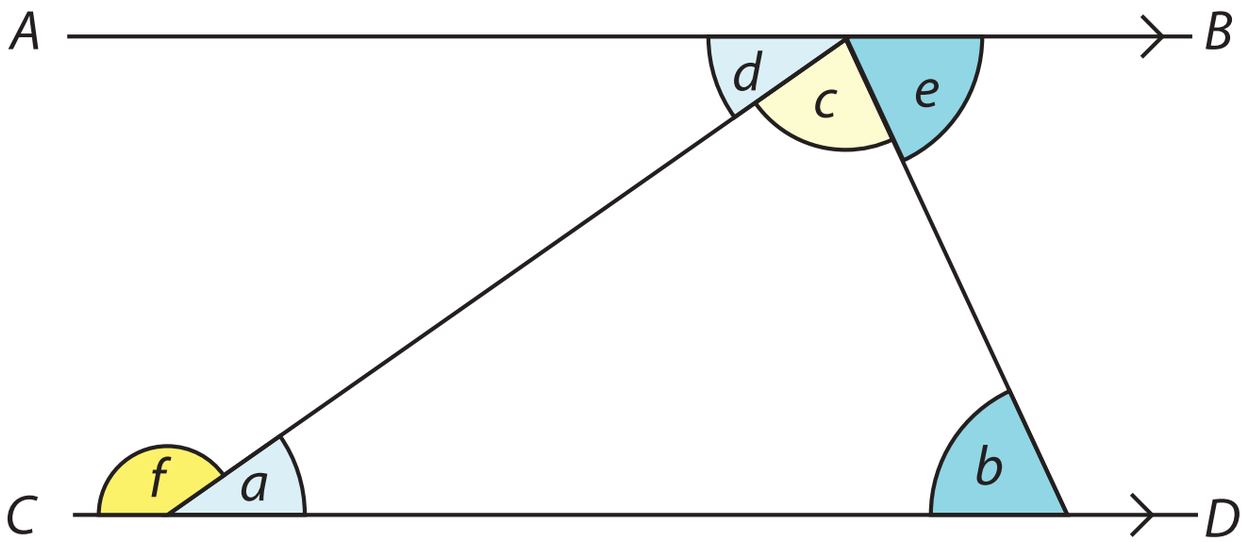
li **a** Show that $a + b + c = 180°$

b Show that $f = b + c$



li **a** Show that $a + b + c = 180°$

b Show that $f = b + c$



Answer

a $a = d$ and $b = e$ (alternate angles)

$d + c + e = 180°$ (angles on a line)

$a + b + c = 180°$ (substituting)

b $b = e$ (alternate angles)

$f = e + c$ (alternate angles)

$f = b + c$ ($b = e$)