Angles in parallel lines

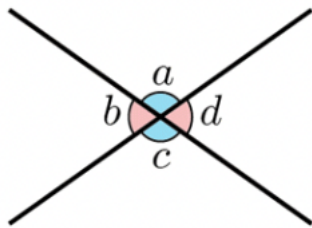## Angles in parallel lines

HANA
MATH

Vertically opposite angles are angles that are opposite one another at a specific **vertex** and are created by **two straight intersecting lines**.
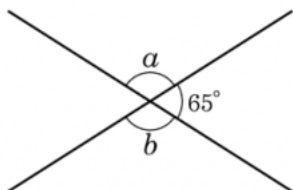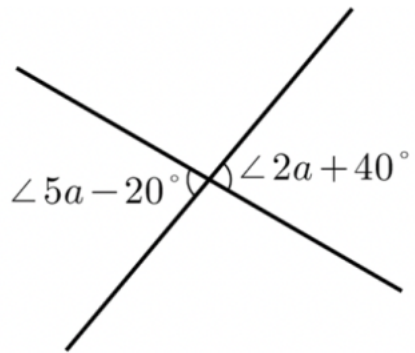
Vertically opposite angles are **equal** to each other.

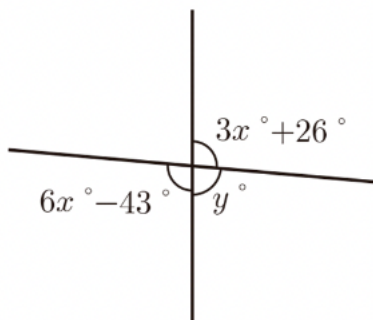**Corresponding angles are equal.**

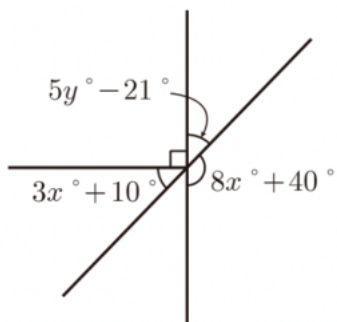**Alternate angles are equal.**

1 **Find the size of a and b**

2 Find the value of a

$\angle\,5a-20°$ $\angle\,2a+40°$

3 Calculate angle x and y

$3x°+26°$

$6x°-43°$ $y°$

4 Calculate angle x and y
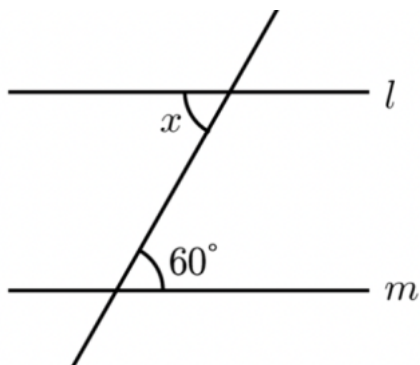
$5y°-21°$

$3x°+10°$ $8x°+40°$

5
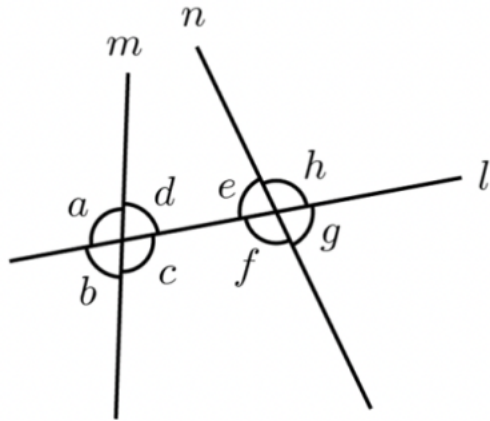
(1) which angle is corresponding to angle a ?
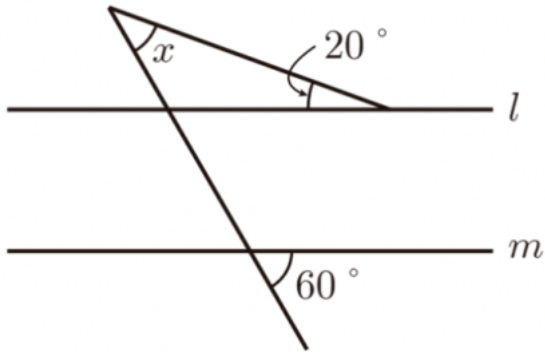
(2)which angle is corresponding to angle h ?

(3) which angle is alternate to angle d ?

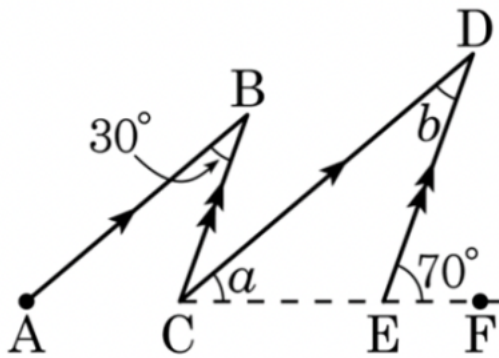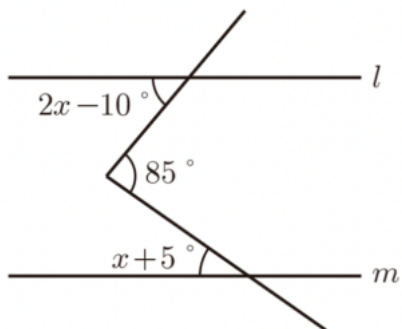*(4) which angle is alternate to angle c ?*

6 Find the size of x
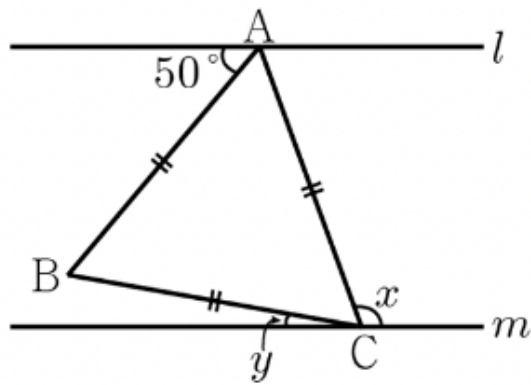
7 Calculate angle x

8 Calculate angle a and b

9 Work out the size of the angle x

10 **W**ork out the size of the angle x and y

Answer sheet

1 a= 115 , b= 115

2 20

3 $x=23,\ y=85$

4 $x=12\ ,\ y=13$

5 (1) e (2) d (3) f (4) e

6 60

7 40

8 a=40, b=30

9 30

10 $x=110,\ y=10$