Α	COMPLEMENTARY
SUPPL	EMENTARY ANGLES

AND

#### A.1 CALCULATING COMPLEMENTARY ANGLES



Complementary angle =

Ex 2: Calculate the complementary angle to 87°.

Complementary angle = \_\_\_\_\_o

Ex 3: Calculate the complementary angle to  $72^{\circ}$ .

Complementary angle =

Ex 4: Calculate the complementary angle to 19°.

Complementary angle =

## A.2 VERIFYING COMPLEMENTARY ANGLES

MCQ 5: Are the angles 36° and 54° complementary?



Choose one answer

- □ Yes
- $\square$  No

MCQ 6: Are the angles 30° and 61° complementary?



Choose one answer

- $\square$  Yes
- $\square$  No

MCQ 7: Are the angles  $42^{\circ}$  and  $48^{\circ}$  complementary?



Choose one answer

- $\square$  Yes
- $\square$  No

MCQ 8: Are the angles  $25^{\circ}$  and  $66^{\circ}$  complementary?



Choose one answer

- ☐ Yes
- □ No

#### A.3 CALCULATING SUPPLEMENTARY ANGLES

Ex 9: Calculate the supplementary angle to 115°.

Supplementary angle =

Ex 10: Calculate the supplementary angle to 168°.

Supplementary angle =

Ex 11: Calculate the supplementary angle to 132°.

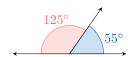
Supplementary angle =

**Ex 12:** Calculate the supplementary angle to  $47^{\circ}$ .

Supplementary angle =

#### A.4 VERIFYING SUPPLEMENTARY ANGLES

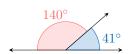
MCQ 13: Are the angles  $125^{\circ}$  and  $55^{\circ}$  supplementary?



Choose one answer

- ☐ Yes
- $\square$  No

MCQ 14: Are the angles  $140^{\circ}$  and  $41^{\circ}$  supplementary?



Choose one answer

- ☐ Yes
- $\square$  No

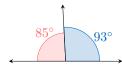
MCQ 15: Are the angles  $108^{\circ}$  and  $72^{\circ}$  supplementary?



Choose one answer

- $\square$  Yes
- $\square$  No

MCQ 16: Are the angles  $85^{\circ}$  and  $93^{\circ}$  supplementary?



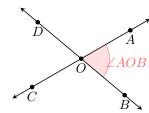
Choose one answer

- $\square$  Yes
- $\square$  No

#### **B OPPOSITE ANGLES AT A VERTEX**

#### **B.1 IDENTIFYING OPPOSITE ANGLES AT A VERTEX**

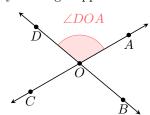
MCQ 17: Identify the angle opposite  $\angle AOB$  at the vertex.



Choose one answer

- $\square \angle DOA$
- $\square \angle COB$
- $\square \angle DOC$
- $\square \angle AOD$

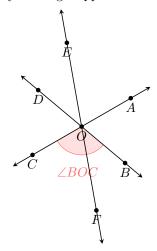
MCQ 18: Identify the angle opposite  $\angle DOA$  at the vertex.



Choose one answer

- $\square \angle DOA$
- $\square \angle COB$
- $\square \angle DOC$
- $\square \angle AOD$

MCQ 19: Identify the angle opposite  $\angle BOC$  at the vertex.

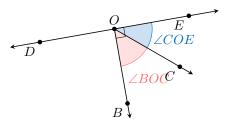


Choose one answer

- $\square \angle DOA$
- $\square \angle DOE$
- $\square \angle EOA$
- $\square \angle AOD$

#### **B.2 DETERMINING ANGLE RELATIONSHIPS**

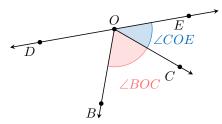
MCQ 20: Which relationship describes  $\angle BOC$  and  $\angle COE$ ?



Choose one answer

- ☐ Opposite angles at a vertex
- $\square$  Complementary angles
- $\square$  Supplementary angles
- $\hfill\square$  None of the above

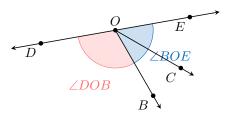
MCQ 21: Which relationship describes  $\angle BOC$  and  $\angle COE$ ?



Choose one answer

- $\square$  Opposite angles at a vertex
- $\square$  Complementary angles
- $\Box$  Supplementary angles
- $\square$  None of the above

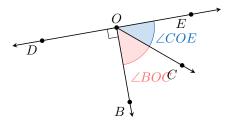
**MCQ 22:** Which relationship describes  $\angle DOB$  and  $\angle BOE$ ?



Choose one answer

- $\square$  Opposite angles at a vertex
- $\square$  Complementary angles
- ☐ Supplementary angles
- $\square$  None of the above

MCQ 23: Which relationship describes  $\angle BOC$  and  $\angle COE$ ?

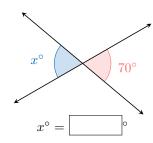


Choose one answer

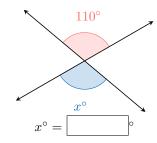
- $\square$  Opposite angles at a vertex
- ☐ Complementary angles
- $\square$  Supplementary angles
- $\square$  None of the above

#### **B.3 CALCULATING UNKNOWN ANGLES**

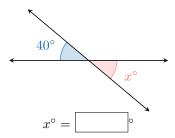
**Ex 24:** Find the measure of the unknown angle  $x^{\circ}$ .



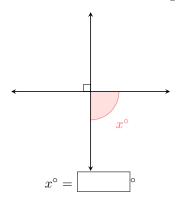
**Ex 25:** Find the measure of the unknown angle  $x^{\circ}$ .



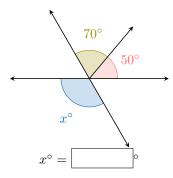
**Ex 26:** Find the measure of the unknown angle  $x^{\circ}$ .



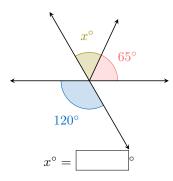
**Ex 27:** Find the measure of the unknown angle  $x^{\circ}$ .



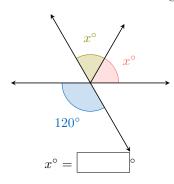
**Ex 28:** Find the measure of the unknown angle  $x^{\circ}$ .



**Ex 29:** Find the measure of the unknown angle  $x^{\circ}$ .



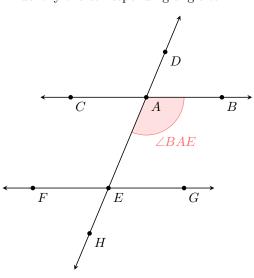
**Ex 30:** Find the measure of the unknown angle  $x^{\circ}$ .



# C CORRESPONDING, ALTERNATE, AND CO-INTERIOR ANGLES

#### **C.1 IDENTIFYING ANGLES**

MCQ 31: Identify the corresponding angle to  $\angle BAE$ .



Choose one answer

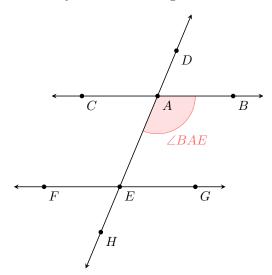


 $\square \angle FEA$ 

 $\square \ \angle AEG$ 

 $\square \ \angle GEH$ 

MCQ 32: Identify the alternate angle to  $\angle BAE$ .



Choose one answer

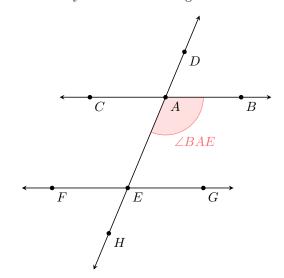
 $\square \angle CAD$ 

 $\square \angle FEA$ 

 $\square \angle AEG$ 

 $\square \ \angle GEH$ 

MCQ 33: Identify the co-interior angle to  $\angle BAE$ .



Choose one answer

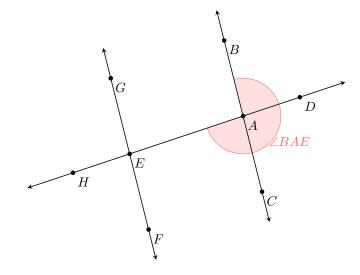
 $\square \angle CAD$ 

 $\square \angle FEA$ 

 $\Box \ \angle AEG$ 

 $\square \angle GEH$ 

MCQ 34: Identify the opposite angle to  $\angle BAE$ .



Choose one answer

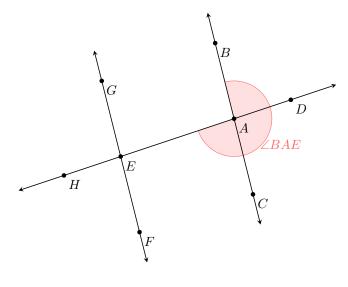
 $\square \angle CAD$ 

 $\square \ \angle FEA$ 

 $\square \ \angle AEG$ 

 $\square \ \angle GEH$ 

MCQ 35: Identify the corresponding angle to  $\angle BAE$ .



Choose one answer

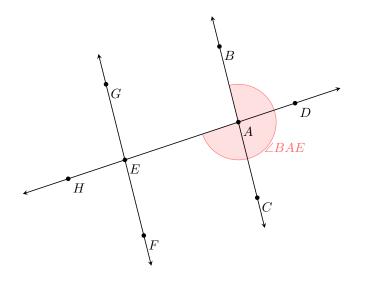
 $\square \angle CAD$ 

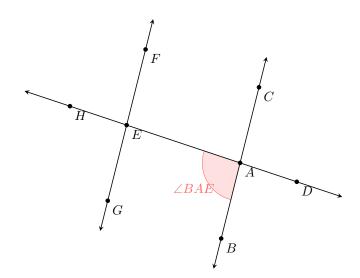
 $\square \angle FEA$ 

 $\square \ \angle AEG$ 

 $\square \angle GEH$ 

**MCQ 36:** Identify the alternate angle to  $\angle BAE$ .





Choose one answer

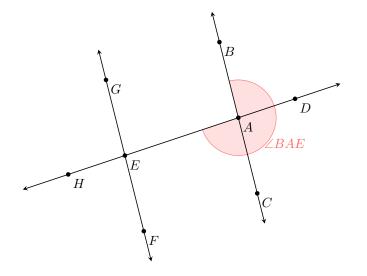
 $\square \angle CAD$ 

 $\square \ \angle FEA$ 

 $\square \ \angle AEG$ 

 $\square \ \angle GEH$ 

MCQ 37: Identify the co-interior angle to  $\angle BAE$ .



Choose one answer

 $\square \angle CAD$ 

 $\square \angle FEA$ 

 $\square \angle AEG$ 

 $\square \ \angle GEH$ 

Choose one answer

 $\square \ \angle{CAD}$ 

 $\square \angle FEA$ 

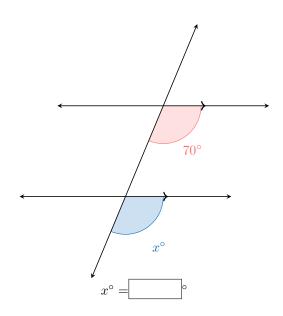
 $\square \angle AEG$ 

 $\square \ \angle GEH$ 

### **D PROPERTIES OF PARALLEL LINES**

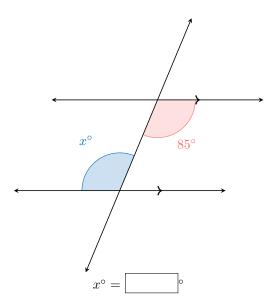
### **D.1 CALCULATING UNKNOWN ANGLES**

**Ex 39:** Find the measure of the unknown angle  $x^{\circ}$ .

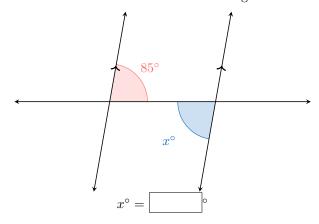


**Ex 40:** Find the measure of the unknown angle  $x^{\circ}$ .

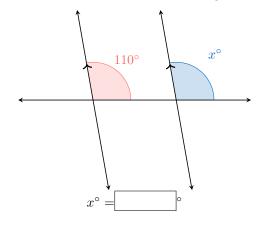
MCQ 38: Identify the opposite angle to  $\angle BAE$ .



**Ex 41:** Find the measure of the unknown angle  $x^{\circ}$ .

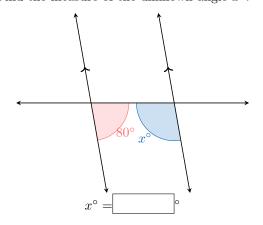


**Ex 42:** Find the measure of the unknown angle  $x^{\circ}$ .

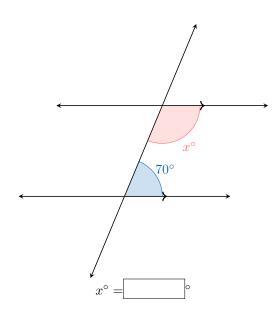


### **D.2 CALCULATING UNKNOWN ANGLES 2**

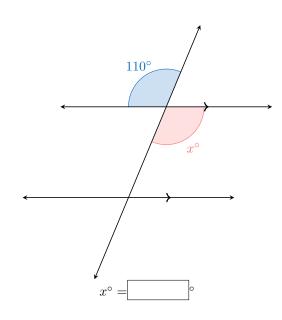
**Ex 43:** Find the measure of the unknown angle  $x^{\circ}$ .



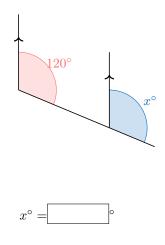
**Ex 44:** Find the measure of the unknown angle  $x^{\circ}$ .



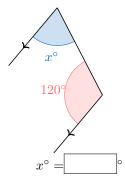
**Ex 45:** Find the measure of the unknown angle  $x^{\circ}$ .



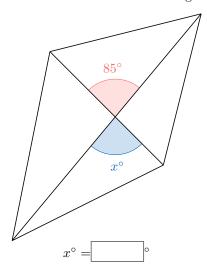
**Ex 46:** Find the measure of the unknown angle  $x^{\circ}$ .



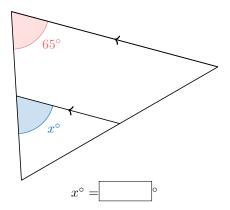
**Ex 47:** Find the measure of the unknown angle  $x^{\circ}$ .



**Ex 48:** Find the measure of the unknown angle  $x^{\circ}$ .



**Ex 49:** Find the measure of the unknown angle  $x^{\circ}$ .



**Ex 50:** Find the measure of the unknown angle  $x^{\circ}$ .

