A COMPLEMENTARY SUPPLEMENTARY ANGLES

AND

A.1 CALCULATING COMPLEMENTARY ANGLES

Ex 1: Calculate the complementary angle to 63°.

Complementary angle = o

Ex 2: Calculate the complementary angle to 87°.

Complementary angle = \bigcirc

Ex 3: Calculate the complementary angle to 72° .

Complementary angle = \bigcirc

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
- □ No

MCQ 7: Are the angles 42° and 48° complementary?



Choose one answer

- \square Yes
- \square No

MCQ 8: Are the angles 25° and 66° complementary?



Choose one answer

- \square Yes
- \square No

A.3 CALCULATING SUPPLEMENTARY ANGLES

Ex 9: Calculate the supplementary angle to 115°.

Supplementary angle = \bigcirc

Ex 10: Calculate the supplementary angle to 168°.

Supplementary angle =

Ex 11: Calculate the supplementary angle to 132°.

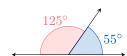
Supplementary angle =

Ex 12: Calculate the supplementary angle to 47° .

Supplementary angle =

A.4 VERIFYING SUPPLEMENTARY ANGLES

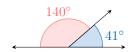
MCQ 13: Are the angles 125° and 55° supplementary?



Choose one answer

- \square Yes
- □ No

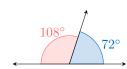
MCQ 14: Are the angles 140° and 41° supplementary?



Choose one answer

- ☐ Yes
- □ No

MCQ 15: Are the angles 108° and 72° supplementary?



Choose one answer

- \square Yes
- \square No

MCQ 16: Are the angles 85° and 93° supplementary?



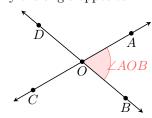
Choose one answer

- \square Yes
- \square No

B OPPOSITE ANGLES AT A VERTEX

B.1 IDENTIFYING OPPOSITE ANGLES AT A VERTEX

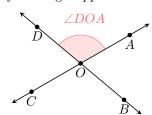
MCQ 17: Identify the angle opposite $\angle AOB$ at the vertex.



Choose one answer

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

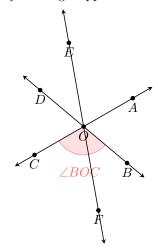
MCQ 18: Identify the angle opposite $\angle DOA$ at the vertex.



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.

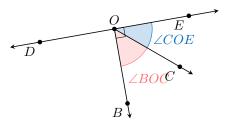


Choose one answer

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

B.2 DETERMINING ANGLE RELATIONSHIPS

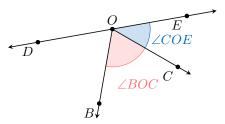
MCQ 20: Which relationship describes $\angle BOC$ and $\angle COE$?



Choose one answer

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

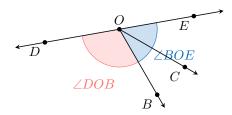
MCQ 21: Which relationship describes $\angle BOC$ and $\angle COE$?



Choose one answer

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

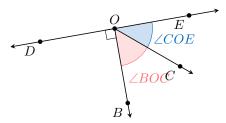
MCQ 22: Which relationship describes $\angle DOB$ and $\angle BOE$?



Choose one answer

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

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

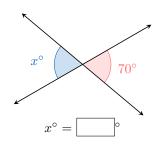


Choose one answer

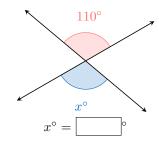
- \square Opposite angles at a vertex
- ☐ Complementary angles
- \Box Supplementary angles
- \square None of the above

B.3 CALCULATING UNKNOWN ANGLES

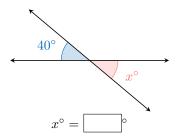
Ex 24: Find the measure of the unknown angle x° .



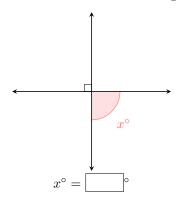
Ex 25: Find the measure of the unknown angle x° .



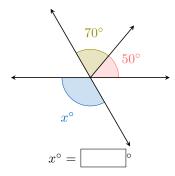
Ex 26: Find the measure of the unknown angle x° .



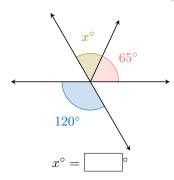
Ex 27: Find the measure of the unknown angle x° .



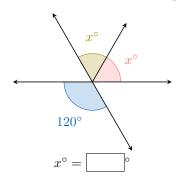
Ex 28: Find the measure of the unknown angle x° .



Ex 29: Find the measure of the unknown angle x° .



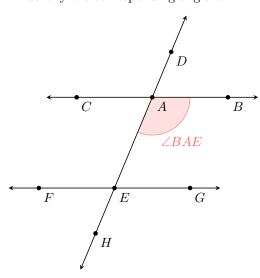
Ex 30: Find the measure of the unknown angle x° .



C CORRESPONDING, ALTERNATE, AND CO-INTERIOR ANGLES

C.1 IDENTIFYING ANGLES

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



Choose one answer

3

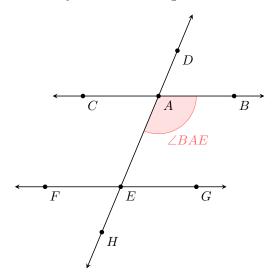


 $\square \angle FEA$

 $\square \ \angle AEG$

 $\square \ \angle GEH$

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



Choose one answer

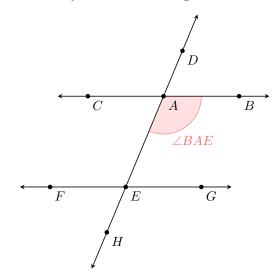
 $\square \angle CAD$

 $\square \angle FEA$

 $\square \angle AEG$

 $\square \angle GEH$

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



Choose one answer

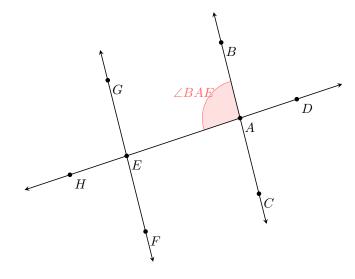
 $\square \angle CAD$

 $\square \angle FEA$

 $\square \ \angle AEG$

 $\square \angle GEH$

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



Choose one answer

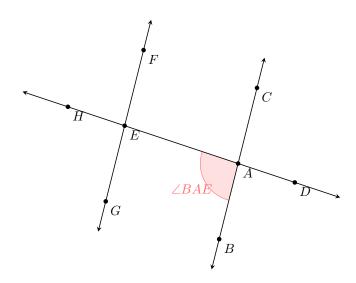
 $\square \angle CAD$

 $\square \ \angle FEA$

 $\square \ \angle AEG$

 $\square \angle GEH$

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



Choose one answer

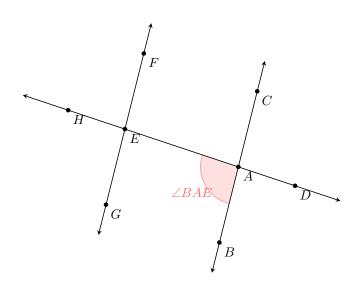
 $\square \angle CAD$

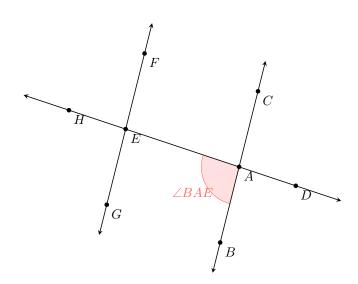
 $\square \angle FEA$

 $\square \angle AEG$

 $\square \angle GEH$

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





Choose one answer

 $\square \angle CAD$

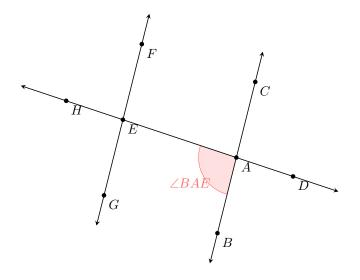
 $\square \ \angle FEA$

 $\square \ \angle AEG$

 $\square \ \angle GEH$

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

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



Choose one answer

 $\square \angle CAD$

 $\square \angle FEA$

 $\square \angle AEG$

 $\square \angle GEH$

Choose one answer

 $\square \ \angle{CAD}$

 $\square \angle FEA$

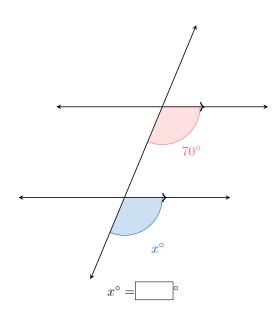
 $\square \angle AEG$

 $\square \ \angle GEH$

D PROPERTIES OF PARALLEL LINES

D.1 CALCULATING UNKNOWN ANGLES: LEVEL 1

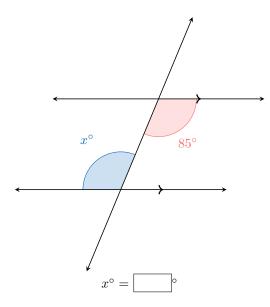
Ex 39: Find the measure of the unknown angle x° .



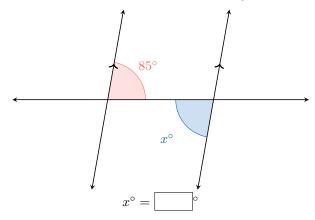
Ex 40: Find the measure of the unknown angle x° .

()

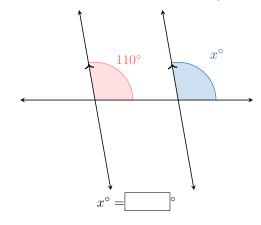
Ex 40: Find the measu



Ex 41: Find the measure of the unknown angle x° .

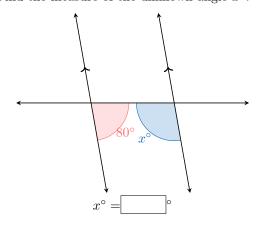


Ex 42: Find the measure of the unknown angle x° .

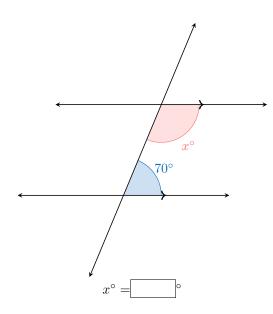


D.2 CALCULATING UNKNOWN ANGLES: LEVEL 2

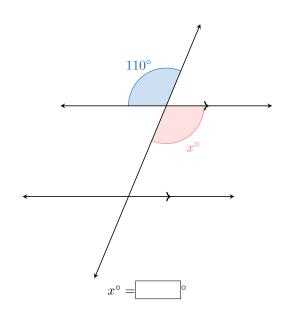
Ex 43: Find the measure of the unknown angle x° .



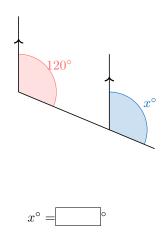
Ex 44: Find the measure of the unknown angle x° .



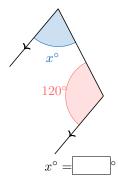
Ex 45: Find the measure of the unknown angle x° .



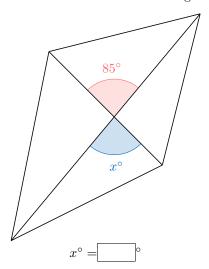
Ex 46: Find the measure of the unknown angle x° .



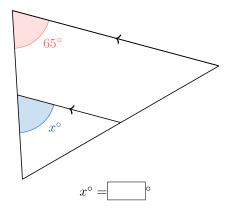
Ex 47: Find the measure of the unknown angle x° .



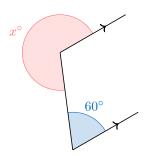
Ex 48: Find the measure of the unknown angle x° .



Ex 49: Find the measure of the unknown angle x° .



Ex 50: Find the measure of the unknown angle x° .



$$x^{\circ} =$$