Name:

Solve each problem.

1)

C

106°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 72 degrees.

B. What is the measure of angle ABD?

2)

C

108°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 55 degrees.

B. What is the measure of angle DBC?

3)

C

119°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 37 degrees.

B. What is the measure of angle ABD?

4)

174°

C ← B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 121 degrees.

B. What is the measure of angle DBC?

5)

140°
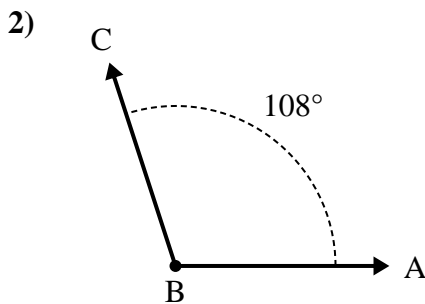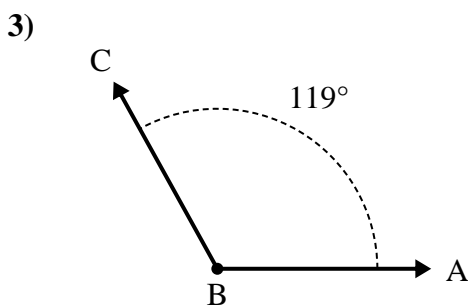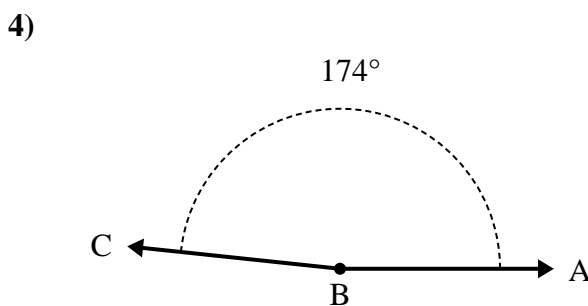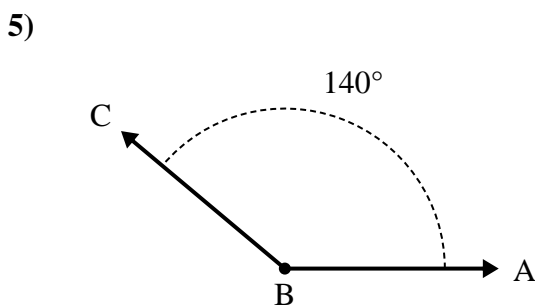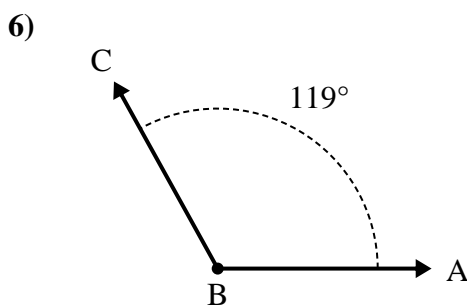
C

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 80 degrees.

B. What is the measure of angle ABD?

6)

C

119°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 42 degrees.

B. What is the measure of angle ABD?

Math

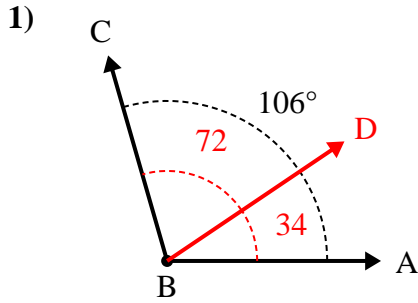**Solve each problem.**

1)

C

106°

72

D

34

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 72 degrees.
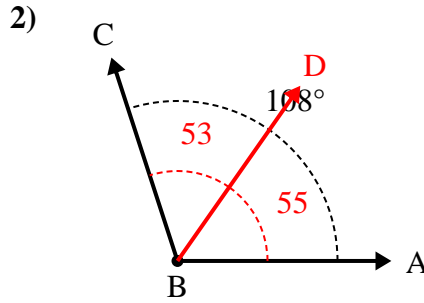
B. What is the measure of angle ABD?

2)

C

D

108°

53

55
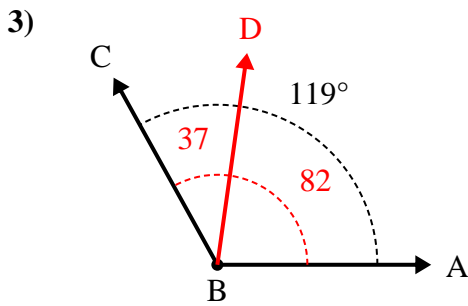
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 55 degrees.

B. What is the measure of angle DBC?

1. _____ **34°**

2. _____ **53°**

3. _____ **82°**

4. _____ **53°**

5. _____ **60°**

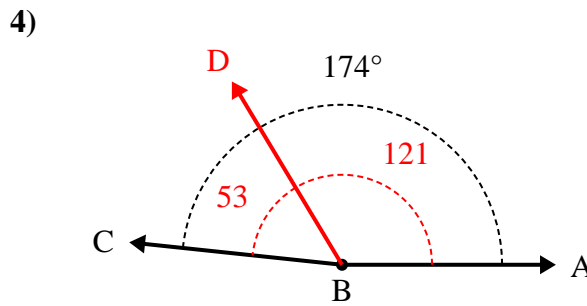6. _____ **77°**

3)

D

C

119°

37

82

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 37 degrees.
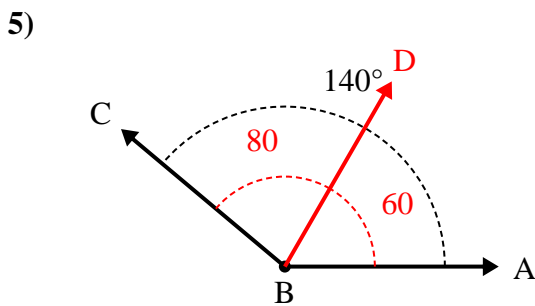
B. What is the measure of angle ABD?

4)

D   174°

121

53

C   A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 121 degrees.

B. What is the measure of angle DBC?
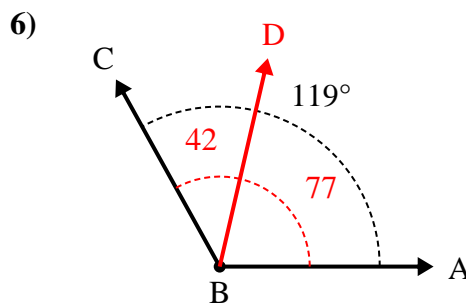
5)

140° D

C

80

60

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 80 degrees.

B. What is the measure of angle ABD?

6)

C   D

119°

42

77

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 42 degrees.

B. What is the measure of angle ABD?

Math