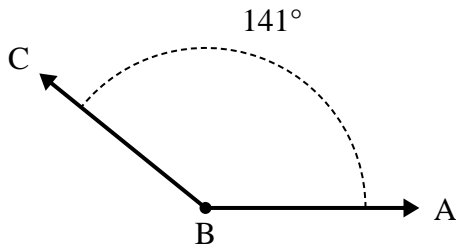Name:

Solve each problem.

1)

141°

C

B
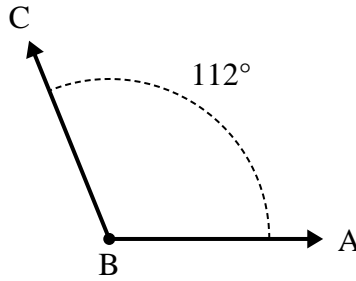
A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 90 degrees.

B. What is the measure of angle DBC?

2)

C

112°

B

A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 74 degrees.

B. What is the measure of angle DBC?

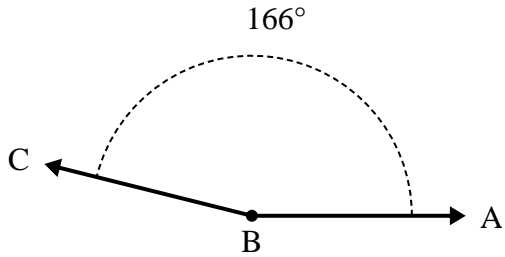1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

3)

166°

C

B

A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 131 degrees.

B. What is the measure of angle ABD?

4)

147°

C

B

A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 99 degrees.
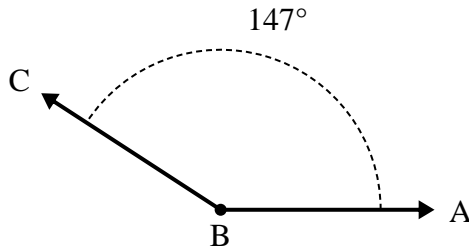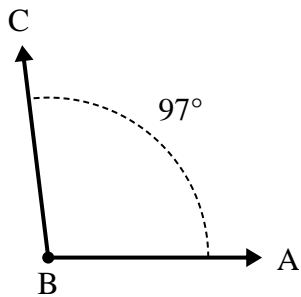
B. What is the measure of angle DBC?

5)

C

97°

B
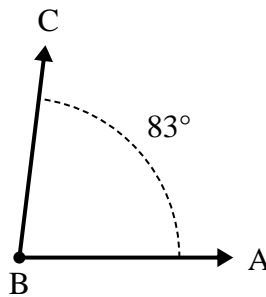
A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 39 degrees.

B. What is the measure of angle DBC?

6)

C

83°

B

A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 36 degrees.

B. What is the measure of angle ABD?

Math

Name: **Answer Key**

Solve each problem.

1)

D

141°

C

51

90

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 90 degrees.
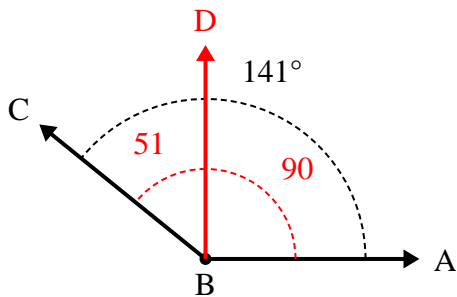
B. What is the measure of angle DBC?

2)

C   D

112°

38

74

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 74 degrees.

B. What is the measure of angle DBC?

1. **51°**

2. **38°**

3. **35°**

4. **48°**

5. **58°**

6. **47°**

3)

166°

131

D

35

C ← B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 131 degrees.
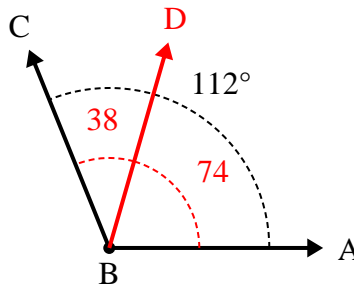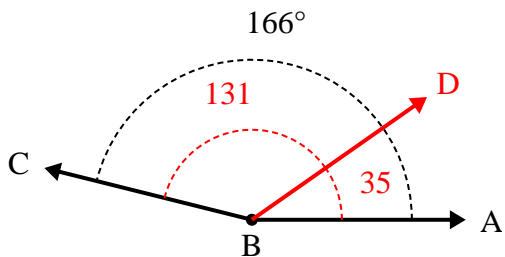
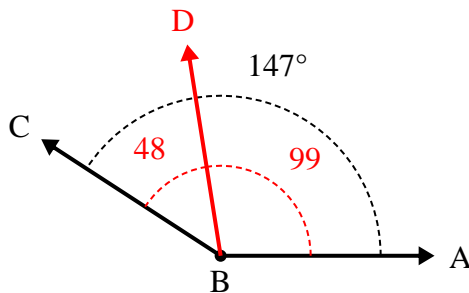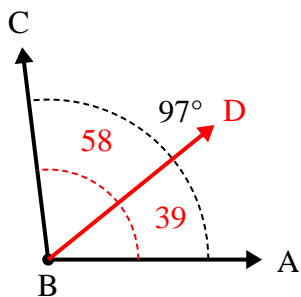B. What is the measure of angle ABD?

4)

D

147°

C

48

99

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 99 degrees.

B. What is the measure of angle DBC?

5)

C

97° D

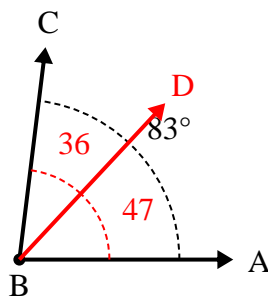58

39

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 39 degrees.

B. What is the measure of angle DBC?

6)

C

D

36   83°

47

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 36 degrees.

B. What is the measure of angle ABD?

Math

1-6 | 83 | 67 | 50 | 33 | 17 | 0