# Circle Theorem No. 3 Remember to give reasons for every angle you find.

Example

Find

=\_\_\_\_because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

=\_\_\_\_because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

=\_\_\_\_because \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A

B

D

C

O

100o

1. Find 

A

B

D

C

O

50o

=\_\_\_\_because

=\_\_\_\_because

=\_\_\_\_because

2. Add suitable lines to find 

A

B

D

C

.

O

105o

A

B

D

C

.

O

130o

3. A little trickier – find 

4. Redo question 2 in your book, but replace 105 with x