Name_____ ID: 1

11.REV.1 ~ Lessons 11.1 - 11.4

Past due on_____ Period_____

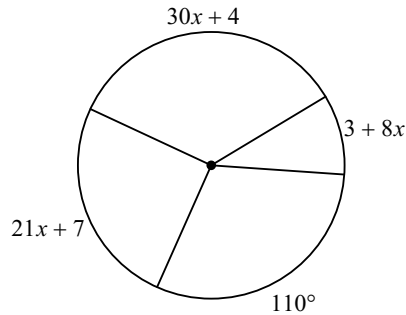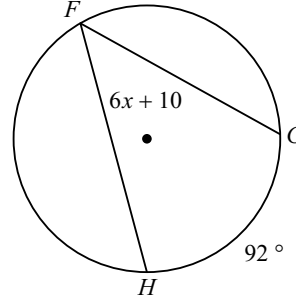**Set up and solve an equation to find the value of *x*. Assume that lines which appear to be diameters are actual diameters. Assume that lines which appear tangent are tangent.**
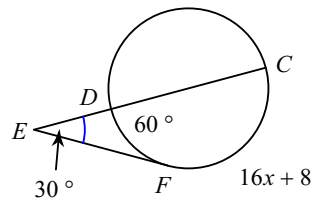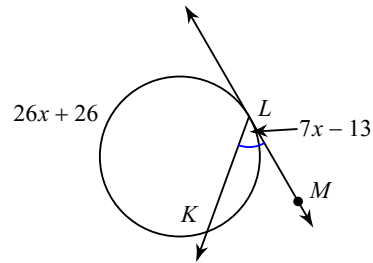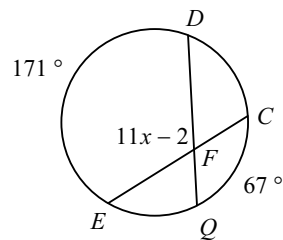
1)

$30x + 4$

$3 + 8x$

$21x + 7$

$110°$

2)

F

$6x + 10$

G

$92°$

H

3)

C

D

E

$60°$

$30°$

F

$16x + 8$

4)

$26x + 26$

L

$7x - 13$

M

K

5)

D

$171°$

$11x - 2$

C

F

$67°$

E

Q

6)

$35x$

B

Q

$61°$

C

E

D

$10x + 7$
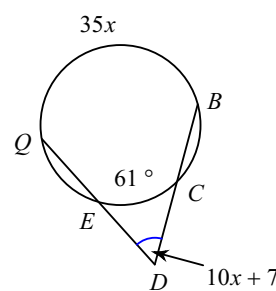
7) Use the Tangent to a Circle Theorem to do problem 2 on page 873 of your text. (You're finding *HM*.) Give your solution in terms of miles, rounded to the nearest hundredth.

Important: *ME* is the sum of the Earth's radius, Mount Everest, and Molly. To find this sum, you will first need to find the sum of Mount Everest and Molly in terms of feet. Then convert feet into miles by dividing by 5280 feet; round this value to the nearest tenth of a mile. Add this result to Earth's radius to obtain *ME*.