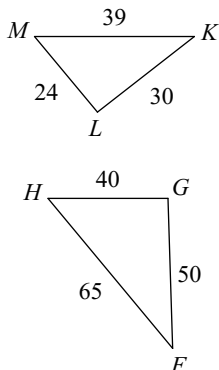


State if the triangles in each pair are similar. If so, state how you know they are similar and complete the similarity statement.

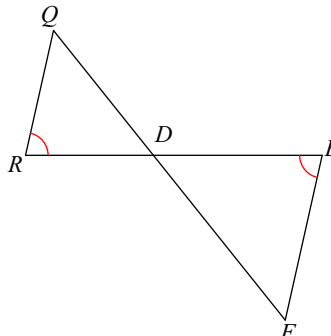
24)



$\triangle FGH \sim$  \_\_\_\_\_

- A) not similar
- B) similar; SAS similarity;  $\triangle MKL$
- C) similar; SSS similarity;  $\triangle KLM$
- D) similar; AA similarity;  $\triangle KLM$

25)

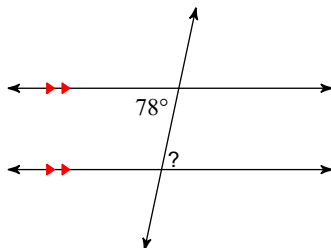


$\triangle DEF \sim$  \_\_\_\_\_

- A) similar; SSS and SAS similarity;  $\triangle DQR$
- B) similar; SSS and SAS similarity;  $\triangle DRQ$
- C) similar; AA similarity;  $\triangle DRQ$
- D) not similar

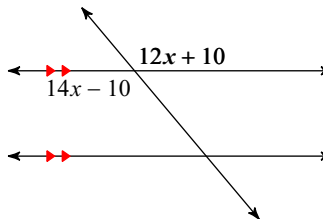
Find the measure of each angle indicated (? or BOLD)

26)



- A)  $83^\circ$
- B)  $78^\circ$
- C)  $65^\circ$
- D)  $74^\circ$

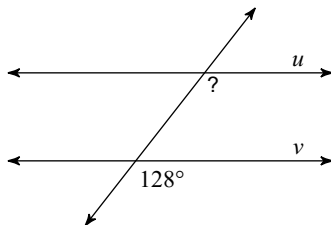
27)



- A)  $130^\circ$
- B)  $145^\circ$
- C)  $35^\circ$
- D)  $120^\circ$

Find the measure of the indicated angle that makes lines u and v parallel.

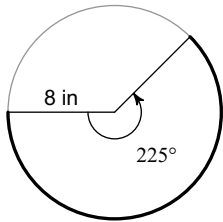
28)



- A)  $55^\circ$
- B)  $133^\circ$
- C)  $118^\circ$
- D)  $128^\circ$

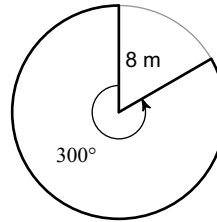
Find the length of each arc. \_\_\_\_\_ Find the are of the sector.

29)



- A)  $10\pi$  in      B)  $\frac{550\pi}{3}$  in  
 C)  $\frac{361\pi}{6}$  in      D)  $\frac{50\pi}{3}$  in

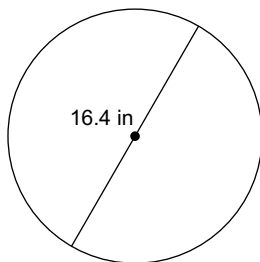
30)



- A)  $\frac{27\pi}{2}$  m<sup>2</sup>      B)  $\frac{40\pi}{3}$  m<sup>2</sup>  
 C)  $15\pi$  m<sup>2</sup>      D)  $\frac{160\pi}{3}$  m<sup>2</sup>

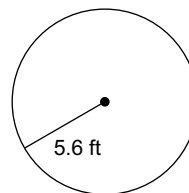
Find the circumference of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.

31)



- A) 51.5 in      B) 103 in  
 C) 56.5 in      D) 18 in

32)



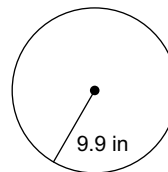
- A) 35.2 ft      B) 14.9 ft  
 C) 37.7 ft      D) 38.3 ft

Find the area of each. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.

33) circumference = 50.3 mi

- A) 805.2 mi<sup>2</sup>      B) 25.1 mi<sup>2</sup>  
 C) 201.3 mi<sup>2</sup>      D) 249.1 mi<sup>2</sup>

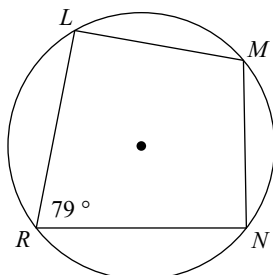
34)



- A) 307.9 in<sup>2</sup>      B) 326.8 in<sup>2</sup>  
 C) 30176.5 in<sup>2</sup>      D) 353 in<sup>2</sup>

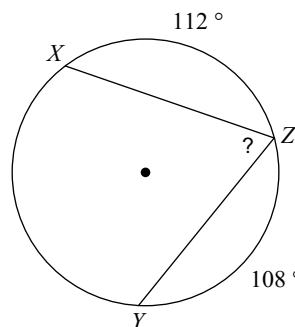
Find the measure of the arc or angle indicated.

35) Find  $m\widehat{LN}$



- A) 158°      B) 197°  
 C) 175°      D) 233°

36)



- A) 62°      B) 65°  
 C) 70°      D) 46°