







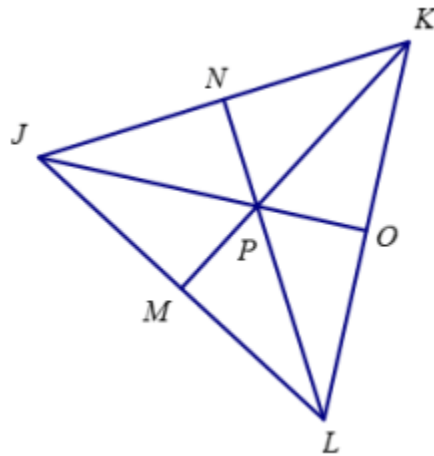






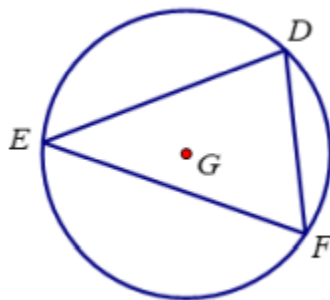


32) Triangle  $JKL$  is shown below with its medians intersecting at point  $P$ . If  $JM = OL$ ,  $JK = 12$ , and  $MP = \sqrt{14}$ , find the length of  $\overline{ML}$ .



- a)  $3\sqrt{6}$       b)  $\sqrt{42}$       c)  $\sqrt{66}$       d) 6      e)  $4\sqrt{5}$       f) None of these

33) Circle  $G$  is circumscribed about  $\triangle DEF$  as shown below. If the diameter of the circle measures 18 cm and  $DE = 12$  cm, find  $\tan(\angle EFD)$ .



- a)  $\frac{\sqrt{5}}{2}$       b)  $\frac{2}{3}$       c)  $\frac{\sqrt{5}}{3}$       d)  $\frac{4\sqrt{5}}{5}$       e)  $\frac{2\sqrt{5}}{5}$       f) None of these