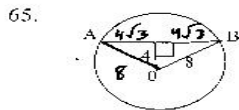
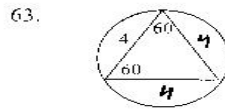
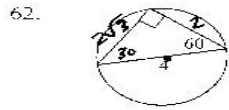
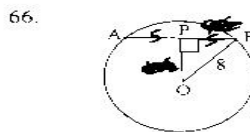


KEY

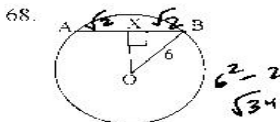
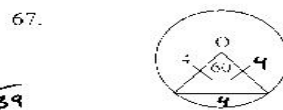


AB = $8\sqrt{3}$



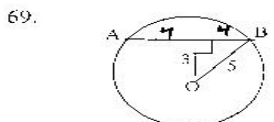
$8^2 - 5^2 = \sqrt{39}$

AB = 10
OP = $\sqrt{39}$

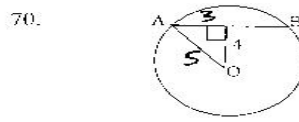


$6^2 - 2^2 = \sqrt{34}$

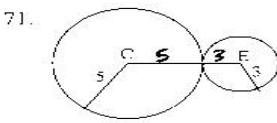
AB = $2\sqrt{2}$
OX = $\sqrt{34}$



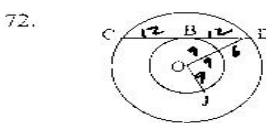
AB = 8



AB = 6
AO = 5



CE = 8



$15^2 - 9^2 = \sqrt{144} = 12$

\overline{CD} is tangent to circle O
OI = 9, OD = 15
BD = 12



EG = 12
FG = 5