



وزارة التربية والتعليم  
الإدارة المركزية لتطوير المناهج  
مكتب مستشار الرياضيات

# برعاية معالي وزير التربية والتعليم السيد الأستاذ / محمد عبد اللطيف

ونوجيهات رئيس الإدارة المركزية لتطوير المناهج

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**إدعاءات ونقييمات لمنهج الرياضيات**

للسف الثاني الثانوي [ علمي ]

للعام الدراسي 2024 / 2025

إعداد

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مراجعة

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## التقييم الأسبوعي (الأسبوع الرابع عشر) – تطبيقات الرياضيات

### Weekly Assessment (Week Fourteen) - Math Applications

#### First Group

- (1) Find the equation of the circle whose diameter is  $\overline{AB}$  where A ( 2 , 5 ) , B ( 3 , 11 ).
- (2) Write the equation of the circle whose center is the point ( 2 , 3 ) and touches line  $x = 7$ .
- (3) Find the equation of the circle whose center is the point ( 3 , 0 ) and touches the y-axis.
- (4) Find the coordinates of the center and the length of the radius of the circle whose equation is  $( x - 1 )^2 + ( y - 2 )^2 = 36$  .
- (5) Find the coordinates of the center and the length of the radius of the circle whose equation is  $2 x^2 + 2 y^2 = 72$ .

#### Second Group

- (1) Find the equation of the circle whose diameter is  $\overline{AB}$  where A ( 2 , 4 ) , B ( 2 , 8 ).
- (2) Write the equation of the circle whose center is the point ( 1 , 8 ) and touches the line  $x = 4$ .
- (3) Find the equation of the circle whose center is the point ( 4 , 0 ) and touches the y-axis.
- (4) Find the coordinates of the center and the length of the radius of the circle whose equation is  $( x + 2 )^2 + ( y - 3 )^2 = 9$  .
- (5) Find the coordinates of the center and the length of the radius of the circle whose equation is  $2 x^2 + 2 y^2 = 98$  .

### Third Group

- (1) Find the equation of the circle whose diameter is  $\overline{AB}$  where A ( 4 , 5 ) , B ( 4 , 10 ) .
- (2) Write the equation of the circle whose center is the point ( 2 , 4 ) and touches the straight line  $x = 5$  .
- (3) Find the equation of the circle whose center is the point ( 5 , 0 ) and touches the y-axis.
- (4) Find the coordinates of the center and the length of the radius of the circle whose equation is  $x^2 + (y - 5)^2 = 49$  .
- (5) Find the coordinates of the center and the length of the radius of the circle whose equation is  $2x^2 + 2y^2 = 50$