أداءات وتقييمات لمنهج الرياضيات

للصف الأول الثانوي

للعام الدراسي 2024 / 2025

First Algebra:

1) Mention two points that belong to the solution set of the inequality $2y + 2x < 4$ and two points that do not belong to it.

2) Represent graphically the solution set of the inequality $2x + 3y \geq 12$ in the coordinate plane R×R.

3) Represent graphically the solution set of the inequality $y < 3x - 3$ in the coordinate plane R×R.

4) Write the inequality that satisfies the set of Solving the shaded area in the figure opposite.
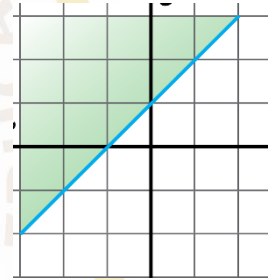
Second Trignometry:

5) Find the area of a circular segment with a radius of 8 cm.

and the measure of its angle 1.3^{rad} approximate the answer to the nearest two decimal places.

6) Find the area of the circular segment whose radius is 10 cm length and the measure of its angle is equal to 90°.

7) Find the area of the circular segment whose radius is 7 cm length and its arc length is 11 cm.

8) Find the area of the largest circular segment whose chord is equal to the length of the radius of its circle, which is equal to 9 cm.

Third Geometry:

9)_ Find the angle that the perpendicular to the line

$\vec{r} = (2, 3) + k(1, 1)$ makes with the positive direction of the x-axis.

10) If θ is the measure of the acute angle between the two straight lines $x - 2y + 5 = 0, ax - 4y - 7 = 0$ and $tan\theta = \frac{4}{3}$, find the value of a.