DELAWARE PRECALCULUS · UNIT 3 · 10 QUESTIONS

Analytic Geometry and Conics — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A circle has radius 7. Its circumference is**

- **A** 7π
- **B** 49π
- **C** 14π
- **D** 9π

Understand It with Pulse | Flag a mistake

2 **A circle has center (-3, 2) and radius 2. Its equation is**

- **A** $(x + 3)^2 + (y - 2)^2 = 4$
- **B** $x^2 + y^2 = 4$
- **C** $(x + 3)^2 + (y - 2)^2 = 2$
- **D** $x^2 + y^2 = 2$

Understand It with Pulse | Flag a mistake

3 **The vertex of $y = (x - -3)^2 + -1$ is**

- **A** (3, -1)
- **B** (-3, -1)
- **C** (-3, 1)
- **D** (0, 0)

Understand It with Pulse | Flag a mistake

4 **A circle has radius 3. Its circumference is**

- A 3π
- B 9π
- C 5π
- D 6π

Understand It with Pulse | Flag a mistake

5 **A circle has radius 8 and a central angle of 90°. The arc length is**

- A 4π
- B 8π
- C 5π
- D 2π

Understand It with Pulse | Flag a mistake

6 **A circle has center (-4, 4) and radius 2. Its equation is**

- A $x^2 + y^2 = 4$
- B $(x + 4)^2 + (y - 4)^2 = 4$
- C $(x + 4)^2 + (y - 4)^2 = 2$
- D $x^2 + y^2 = 2$

Understand It with Pulse | Flag a mistake

7 **The vertex of $y = (x - -1)^2 + 1$ is**

- A (1, 1)
- B (-1, -1)
- C (-1, 1)
- D (0, 0)

Understand It with Pulse | Flag a mistake

8 **A circle has center (4, -2) and radius 5. Its equation is**

A $x^2 + y^2 = 25$

B $(x - 4)^2 + (y + 2)^2 = 5$

C $(x - 4)^2 + (y + 2)^2 = 25$

D $x^2 + y^2 = 5$

Understand It with Pulse | Flag a mistake

9 **A circle has radius 6. Its area is**

A 36π

B 12π

C 6π

D 72π

Understand It with Pulse | Flag a mistake

10 **A circle has radius 3. Its circumference is**

- A 3π
- B 6π
- C 9π
- D 5π

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	A	**9.**	A
2.	A	**6.**	B	**10.**	B
3.	B	**7.**	C		
4.	D	**8.**	C		

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