

Name: _____

1. The product of $6x^3y^3$ and $2x^2y$ is

1. $3xy^2$
2. $8x^5y^5$
3. $12x^5y^4$
4. $12x^6y^3$

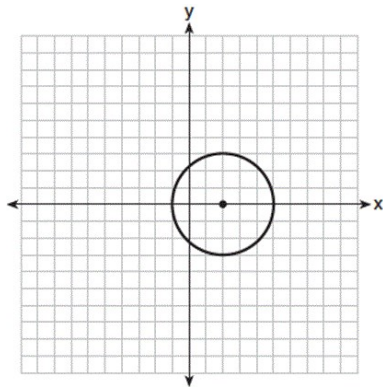
2. The expression $\frac{12w^9y^3}{-3w^3y^3}$ is equivalent to

1. $-4w^6$
2. $-4w^3y$
3. $9w^6$
4. $9w^3$

3. The expression is $\frac{(10w^3)^2}{5w}$ equivalent to

1. $2w^5$
2. $2w^8$
3. $20w^5$
4. $20w^8$

4. Which equation represents the circle shown in the graph below?



1. $(x - 2)^2 + y^2 = 9$
2. $(x + 2)^2 + y^2 = 9$
3. $(x - 2)^2 + y^2 = 3$
4. $(x + 2)^2 + y^2 = 3$

5. A circle whose center has coordinates $(-3, 4)$ passes through the origin. What is the equation of the circle?

1. $(x + 3)^2 + (y - 4)^2 = 5$
2. $(x + 3)^2 + (y - 4)^2 = 25$
3. $(x - 3)^2 + (y + 4)^2 = 5$
4. $(x - 3)^2 + (y + 4)^2 = 25$

6. The solution set for the equation $b = \sqrt{2b^2 - 64}$ is

1. $\{-8\}$
2. $\{8\}$
3. $\{\pm 8\}$
4. $\{\}$

7. What is the solution set of the equation $-\sqrt{5-x} + 3 = x$?

1. $\{1\}$
2. $\{4, 1\}$
3. $\{\}$
4. $\{4\}$