FUN MATH KIDS

Easy

Differentiating Polynomials True/False

Topic: Is dy/dx of $x^3+2x = 3x^2+2$? T/F · Grade: grade 8

Name: _____ Date: _____ Score: _____/ 8

Apply the power rule to check each derivative, then mark the statement True or False.

1. If $y = 3x^2 + 2x$, then $dy/dx = 9x^2 + 2$. ☐ T ☐ F

2. If $y = 3x^3 + 4x$, then $dy/dx = 9x^2 + 4$. ☐ T ☐ F

3. If $y = 4x^4 + 4x$, then $dy/dx = 20x^4 + 4$. ☐ T ☐ F

4. If $y = x^3 + 2x$, then $dy/dx = 4x^3 + 2$. ☐ T ☐ F

5. If $y = 3x^2 + 4x$, then $dy/dx = 9x^2 + 4$. ☐ T ☐ F

6. If $y = 4x^3 + 3x$, then $dy/dx = 16x^3 + 3$. ☐ T ☐ F

7. If $y = x^3 + 3x$, then $dy/dx = 4x^3 + 3$. ☐ T ☐ F

8. If $y = x^4 + 4x$, then $dy/dx = 4x^3 + 4$. ☐ T ☐ F