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Name _____ **Section** _____ **Date** _____

Computational Test # 2 for Math 151: Version Woodwind

Find $\frac{dy}{dx}$ in each case. Do **not** simplify your answers in any way.
For example, the derivative of $37x^{46}$ should be written as $(46)37x^{45}$.

1. $y = x^7 - 3x + 6 + \frac{1}{x^4}$

Answer to 1 _____

2. $y = e^{5x} \sin 2x$

Answer to 2 _____

3. $y = \frac{2 \tan x}{5 - x}$

Answer to 3 _____

4. $y = \left(x^4 + 5x + 5\right)^{1/5}$

Answer to 4 _____

OVER

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5. $y = \cos(9x^2)$

Answer to 5 _____

6. $y = \arcsin\left(x^5 + 8\right)$

Answer to 6 _____

7. $y = \ln(x^8 - 5x + 7)$

Answer to 7 _____

8. Find $\dfrac{dy}{dx}$ if $x^4y + 5y^6x^3 = 8$.

Answer to 8 _____

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