AP Calculus Quiz : Differentiation – NO CALCULATOR

1. 
$$\frac{d}{dx}(3+\pi\sin x)=$$

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2. 
$$\frac{d}{dx}(7x^{-3}-5\cos x)=$$

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3. 
$$\frac{d}{dx} (\tan x + 5x^{2/3}) =$$

$$3. \quad \frac{d}{dx} \left( \tan x + 5x^{2/3} \right) =$$

$$4. \quad \frac{d}{dx} \left( \frac{6x^2 + 11x^4}{x^2} \right) =$$

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$$5. \quad \frac{d}{dx} \left[ \frac{d}{dx} \left( 10x^6 \right) \right] =$$

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$$6. \quad \frac{d}{dx} \Big( \big( 3x + 1 \big)^2 \Big) =$$

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$$7. \quad \frac{d}{dx} \left( \frac{6}{7x} \right) =$$

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$$8. \quad \frac{d}{dx} \left( x^2 \sec x \right) =$$

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9. 
$$\frac{d}{dx}\left(3\cot x + \sqrt[5]{x^2}\right) =$$

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10. 
$$\frac{d}{dx}\left(e^2x^3-\csc x\right)=$$

10. 
$$\frac{d}{dx}(e^2x^3 - \csc x) =$$