

Quiz #6: Monday, Oct 24

Name: _____ Solution Key _____

Recitation R02 (M)

Find the derivative of each function below. Simplify your answers.

1. $f(x) = (x + 2)^5$

Solution: $f'(x) = 5(x + 2)^4(1) = 5(x + 2)^4.$

2. $g(t) = 3e^{2t} + 4$

Solution: $g'(t) = 3(2e^{2t}) + 0 = 6e^{2t}.$

Quiz #6: Monday, Oct 24

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Recitation R02 (M)

Find the derivative of each function below. Simplify your answers.

1. $f(x) = 4e^x + 3 \ln x$

Solution: $f'(x) = 4e^x + \frac{3}{x}$.

2. $g(r) = (r^3 - 2)^7$

Solution: $g'(r) = 7(r^3 - 2)^6(3r^2) = 21r^2(r^3 - 2)^6$.

Quiz #6: Tuesday, Oct 25

Name: _____ Solution Key _____

Recitation R04 (Tu)

Find the derivative of each function below. Simplify your answers.

1. $f(x) = (x^2 + 3x)^6$

Solution: $f'(x) = 6(x^2 + 3x)^5(2x + 3)$.

2. $g(s) = 4e^{3s} - 6$

Solution: $g'(s) = 4(3e^{3s}) - 0 = 12e^{3s}$.

Quiz #6: Tuesday, Oct 25

Name: _____ Solution Key _____

Recitation R04 (Tu)

Find the derivative of each function below. Simplify your answers.

1. $f(x) = 2e^x - 4 \ln x$

Solution: $f'(x) = 2e^x - \frac{4}{x}$

2. $g(z) = (z^2 - 5z)^4$

Solution: $g'(z) = 4(z^2 - 5z)^3(2z - 5)$

Quiz #6: Wednesday, Oct 26

Name: _____ Solution Key _____

Recitation R03 (W)

Find the derivative of each function below. Simplify your answers.

1. $f(x) = (x - 4)^6$

Solution: $f'(x) = 6(x - 4)^5(1) = 6(x - 4)^5$.

2. $g(u) = 5e^{2u} + 3$

Solution: $g'(u) = 5(2e^{2u}) + 0 = 10e^{2u}$

Quiz #6: Wednesday, Oct 26

Name: _____ Solution Key _____

Recitation R03 (W)

Find the derivative of each function below. Simplify your answers.

1. $f(x) = 4e^x + 5 \ln x$

Solution: $f'(x) = 4e^x + \frac{5}{x}$.

2. $g(p) = (p^3 - 4)^7$

Solution: $g'(p) = 7(p^3 - 4)^6(3p^2) = 21p^2(p^3 - 4)^6$.