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4 there is a function such that there is both an inflection point and a critical point for some value x a 5 given the graph of f determine where f is increasing or decreasing answer 6 the graph of f is given below draw f 7 find the linear approximation $l(x)$ to $y = x^2 \tan \pi x$ near $x = 1/4$ answer

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multivariable calculus midterm ii 11 06 15 solutions 1 find a value of k for which there exists a function $f(x, y)$ such that $f_x = kx + 6y$, $f_y = kx + 6y$ and find such a function from clairaut's theorem $k = f_{xy}$

$f_{xy} = 6$ and so $f_{3 \times 2} = 6xy = 3y^2$ will do 2 for each critical points of the function x^2y

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solution using the definition $f(x, y) = x^2y$ we have begin align $f_{12} = 12 = 2 = 1$ $f_{21} = 2 = 2 = 1$ $f_{24} = 2 = 4 = 2$ $f_{42} = 4 = 0$ end align the domain is not specified so we take it to be all possible pairs in \mathbb{R}^2 for which f is defined

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the differential equation is a separable equation so we can apply the five step strategy for solution step 1 setting $1 - u = 50 - 0$ gives $u = 50$ as a constant solution since the initial amount of salt in the tank is 4 kilograms this solution does not apply step 2 rewrite the equation as $du/dt = 50 - u = 50$

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correct answer $z = 6 - 127x - 50 - 127y - 256 - 127 \ln 254$ explanation first we need to find the partial derivatives in respect to x and y and plug in $z = 1 - 5 - f(x, y) = \ln(4x^3 - 10y^2) - f(0, 5) = \ln(4) - 1 - 3 - 10 - 5 - 2 - \ln 254 - f_x(x, y) = 12x^2 - 4x^3 - 10y^2 - f_x(0, 5) = 12 - 1 - 2 - 4 - 1 - 3 - 10 - 5 - 2 - 12 - 254 - 6 - 127$

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