

Mathematics in Economics

TASK 1 – 5 points

Name:

Find the derivatives:

a) $y = x^7 + 2x^3 - 15x + \cos x$

b) $y = (4x^5 - 2) \cdot \sin x$

c) $y = \frac{3x^5 + 1}{5x^4}$

d) $y = (6x^3 + 5x^2 - 5)^7$

e) $y = \ln(x^5 - 3x + 11)$

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Name:

Find the derivatives:

a) $y = x^8 - 6x^3 - 5x + \ln x$

b) $y = (2x^3 - 9) \cdot \cos x$

c) $y = \frac{2x^4 - 5}{2x^3}$

d) $y = (3x^2 + 5x - 1)^6$

e) $y = \sin(x^4 - 2x + 7)$

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TASK 1 – 5 points

Name:

Find the derivatives:

a) $y = 3x^5 + 11x^3 - 12x + tgx$

b) $y = (2x^6 - 5) \cdot \ln x$

c) $y = \frac{5x^3+2}{3x^2+1}$

d) $y = (2x^7 + 4x^3 - 2)^5$

e) $y = \cos(4x^7 - 2x^3 - 4)$