

MA 341 – Review Assignment 4 (answer key)

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Question 1

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$$-2 + 2i$$

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Question 2

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$$0 + 9i$$

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Question 3

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$$0 + 5i$$

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Question 4

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$$t^3 e^t - 3t^2 e^t + 6t e^t - 6e^t + C$$

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Question 5

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$$4.28$$

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Question 6

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$$\frac{1}{3} x^3 \sin(x^3) + \frac{1}{3} \cos(x^3) + C$$

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Question 7

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$$\ln \left| \frac{x(x-1)}{x+1} \right| + C$$

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Question 8

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$$\tan^{-1} x + \frac{1}{2} \tan^{-1} \left( \frac{x}{2} \right) + C$$

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Question 9

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$$h'(x) = 2x\sqrt{1+x^6}$$

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Question 10

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$$-\tan^{-1}(\cos x) + C$$