



# Quantitative Methods 1 – Extra Questions

Meeting 3



## Welcome To Success Formula Extra Questions

### What Is It?

This free set of custom questions gives you a clear taste of what to expect on the exam and helps you check if you are keeping up with the material. They are based on our Weekly Meetings and cover the key topics you need to know (slightly delayed since meetings start in Week 2). The difficulty of each question is shown in the corner by the number of lit Success Formula logos. Share, discuss, and have fun testing your knowledge with them! 😊

### How Does It Work?

Give the questions a go on your own! We are not giving the answers on purpose. Peeking would make it way too easy. Stuck or unsure? Come into into our WhatsApp group and discuss them with us. The link/QR is on the last slide if these questions were shared with you.

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## Exam Time!



### Question

Find the derivative of  $(x^2 - 1)(3x - 4)$

### Answers

- A.  $9x^2 - 8x - 3$
  - B.  $6x^2 - 12x + 3$
  - C.  $9x^2 - 8x - 3$
  - D.  $6x^2 - 8x + 3$
-



## Exam Time!



### Question

Find the second derivative of  $\frac{x^2+1}{x}$

### Answers

- A.  $\frac{2}{x^3}$
  - B.  $-\frac{2}{x^3}$
  - C.  $\frac{2}{x^2}$
  - D.  $\frac{2x}{x^3}$
-



## Exam Time!



### Question

Edward believes the demand for his new coffee would be:  $Q(p) = 100(p + 2)^{-1}$  where  $Q$  is quantity and  $p$  is the price. What is price elasticity if price is 10?

### Answers

- A. -1.245
  - B. -1.111
  - C. -0.833
  - D. -0.543
-



## Exam Time!



### Question

Timo is studying the weights of small boats used for lake excursions. The weights of these boats are normally distributed with a mean of 3,200kg and a standard deviation of 350kg. What is the weight of a boat that is 1.75 standard deviations above the mean?

### Answers

- A. 2,587kg
  - B. 3,200kg
  - C. 3,813kg
  - D. 4,115kg
-



## Exam Time!



### Question

Maja is organizing a weekly crash course for her team. The average duration of a session is 270 minutes, with a standard deviation of 12 minutes. She wants to know the likelihood that a session will run more than 5 minutes overtime. Assume that the session durations are normally distributed. What is the likelihood that it will happen?

### Answers

- A. Less than 20% likely
- B. Between 30% and 40%
- C. Between 70% and 80%
- D. More than 80% likely





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