Name _____

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1 Which scenario describes this equation?

$$381 = 300 \cdot e^{(0.04 \cdot 6)}$$

A An app starts with 300 downloads. Its download count grows continually by 4% each day. After 6

B An app starts with 400 downloads. Its download count grows continually by 3% each day. After 6

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2 Which scenario describes this equation?

$$514 = 300 \cdot e^{(0.06 \cdot 9)}$$

A A savings account starts with $300. It grows continuously at 6% interest per month. After 9

B A savings account starts with $900. It grows continuously at 6% interest per month. After 3

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3 Which scenario describes this equation?

$$901 = 800 \cdot e^{(0.03 \cdot 4)}$$

A A rabbit population starts at 800. It grows continuously at 3% growth per quarter. After 4

B A rabbit population starts at 400. It grows continuously at 3% growth per quarter. After 8

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4 Which scenario describes this equation?

$$429 = 300 \cdot e^{(0.09 \cdot 4)}$$

A A credit card starts with $900 of debt. It grows continuously at 3% interest per month. After 4

B A credit card starts with $300 of debt. It grows continuously at 9% interest per month. After 4

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5 Which scenario describes this equation?

$$813 = 700 \cdot e^{(0.05 \cdot 3)}$$

A A rabbit population starts at 300. It grows continuously at 5% growth per year. After 7 years

B A rabbit population starts at 700. It grows continuously at 5% growth per year. After 3 years

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6 Which scenario describes this equation?

$$381 = 300 \cdot e^{(0.06 \cdot 4)}$$

A A savings account starts with $300. It grows continuously at 6% interest per month. After 4

B A savings account starts with $300. It grows continuously at 4% interest per month. After 6

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7 Which scenario describes this equation?

$$793 = 600 \cdot e^{(0.04 \cdot 7)}$$

A A rabbit population starts at 600. It grows continuously at 4% growth per quarter. After 7

B A rabbit population starts at 400. It grows continuously at 6% growth per quarter. After 7

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8 Which scenario describes this equation?

$$442 = 400 \cdot e^{(0.05 \cdot 2)}$$

A A company's share price starts at $200. It grows continuously at 5% growth per month. After 4

B A company's share price starts at $400. It grows continuously at 5% growth per month. After 2