



## Exponential Function Solving - Growth (Continuous) Scenario to Rate

1

What is the value of the rate given this scenario?

A savings account starts with \$800. It grows continuously at a certain percent interest per quarter. After 4 quarters it has \$977.

- |             |             |
|-------------|-------------|
| A $r = 5\%$ | B $r = 7\%$ |
| C $r = 6\%$ | D $r = 3\%$ |
|             |             |

2

What is the value of the rate given this scenario?

A company's share price starts at \$400. It grows continuously at a certain percent growth per month. After 2 months it has a share price of \$442.

- |              |             |
|--------------|-------------|
| A $r = 10\%$ | B $r = 5\%$ |
| C $r = 8\%$  | D $r = 2\%$ |
|              |             |

3

What is the value of the rate given this scenario?

A savings account starts with \$500. It grows continuously at a certain percent interest per quarter. After 9 quarters it has \$858.

- |             |              |
|-------------|--------------|
| A $r = 9\%$ | B $r = 11\%$ |
| C $r = 8\%$ | D $r = 6\%$  |
|             |              |

4

What is the value of the rate given this scenario?

A savings account starts with \$500. It grows continuously at a certain percent interest per year. After 8 years it has \$875.

- |             |             |
|-------------|-------------|
| A $r = 4\%$ | B $r = 6\%$ |
| C $r = 8\%$ | D $r = 7\%$ |
|             |             |

5

What is the value of the rate given this scenario?

A company's share price starts at \$800. It grows continuously at a certain percent growth per quarter. After 3 quarters it has a share price of \$986.

- |             |              |
|-------------|--------------|
| A $r = 4\%$ | B $r = 10\%$ |
| C $r = 7\%$ | D $r = 2\%$  |
|             |              |

6

What is the value of the rate given this scenario?

A company's share price starts at \$800. It grows continuously at a certain percent growth per year. After 5 years it has a share price of \$929.

- |             |             |
|-------------|-------------|
| A $r = 7\%$ | B $r = 3\%$ |
| C $r = 2\%$ | D $r = 6\%$ |
|             |             |

7

What is the value of the rate given this scenario?

A savings account starts with \$400. It grows continuously at a certain percent interest per quarter. After 9 quarters it has \$751.

- |             |             |
|-------------|-------------|
| A $r = 7\%$ | B $r = 8\%$ |
| C $r = 2\%$ | D $r = 3\%$ |
|             |             |

8

What is the value of the rate given this scenario?

A credit card starts with \$800 of debt. It grows continuously at a certain percent interest per month. After 4 months the debt has grown to \$977.

- |             |             |
|-------------|-------------|
| A $r = 5\%$ | B $r = 2\%$ |
| C $r = 6\%$ | D $r = 7\%$ |
|             |             |