LT6.4

1. Which is a graph of an odd function with a negative leading coefficient?

A) B) C) D)

2. If $P(x) \rightarrow -\infty$ as $x \rightarrow +\infty$ and $P(x) \rightarrow -\infty$ as $x \rightarrow -\infty$, which of the following is true?

   A) $P(x)$ is odd and has a negative leading coefficient. B) $P(x)$ is odd and has a positive leading coefficient.

   C) $P(x)$ is even and has a negative leading coefficient. D) $P(x)$ is even and has a positive leading coefficient.

3. Given $P(x) = -5x^4 - 3x^3 + 11x^2 + 16x - 9$, which of the following is true?

   A) $P(x)$ is odd, and as $x \rightarrow +\infty$, $P(x) \rightarrow -\infty$. B) $P(x)$ is odd, and as $x \rightarrow +\infty$, $P(x) \rightarrow +\infty$.

   C) $P(x)$ is even, and as $x \rightarrow +\infty$, $P(x) \rightarrow -\infty$. D) $P(x)$ is even, and as $x \rightarrow +\infty$, $P(x) \rightarrow +\infty$.

LT7.1

4. Which of the following functions is an example of exponential growth?

   A) $a(x) = 1.5(0.85)^x$ B) $b(x) = 4.07x^{1.3}$ C) $c(x) = 0.5(2)^x$ D) $d(x) = \log_3 x^4$

5. Which expression shows the value of a $2500 investment after it has grown by 4.5% per year for 12 years?

   A) $2500(1.045)^{12}$ B) $2500(1.45)^{12}$H   C) $2500(1.045)^{144}$ D) $2500(1.45)^{144}$

6. A balloon with a small leak loses 0.5% of its volume each day. If it originally contained 40 liters of gas, what is the volume of the gas after one week?

   A) $40(.05)^7$ B) $40(.95)^7$ C) $40 - 40(.005)^7$ D) $40(.995)^7$

7. Which of the following functions is an example of exponential decay?

   A) $a(x) = 0.5(1.2)^x$ B) $b(x) = 2.4(0.86)^x$ C) $c(x) = 0.5(x)^{0.9}$ D) $d(x) = \log_{0.5} x$

LT7.2

8. Given $f(x) = 3x^2 - 3x + 5$ and $g(x) = -7x + 4$, find $(f - g)(x)$.

   A) $3x^2 - 10x + 9$ B) $3x^2 - 10x + 1$ C) $3x^2 + 4x + 9$ D) $3x^2 + 4x + 1$

9. Given $f(x) = 2x^2 - x + 3$ and $g(x) = 2x - 4$, find $g(f(x))$.

   A) $4x^2 - 2x + 2$ B) $8x^2 - 34x + 39$ C) $4x^3 - 6x^2 + 2x - 12$ D) $4x^3 - 10x^2 + 10x - 12$

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A. A. Frempong

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