

5

Chapter 5 Test, Form 2B

SCORE _____

Write the letter for the correct answer in the blank at the right of each question.

1. Simplify $(3x^2y)(2xy^2)^3$.

A. $24x^3y^3$

B. $216x^3y^3$

C. $24x^3$

D. $8x^3y^3$

1. A2. Simplify $\frac{2x^2y^3z^4}{8x^3yz^2}$. Assume that no variable equals 0.

F. $\frac{y^2z^2}{4x}$

G. $\frac{y^2z^2}{6x}$

H. $\frac{y^2z^2}{4x^2}$

J. $\frac{y^2z^2}{8x^2}$

2. H3. Maria is simplifying the expression $(x^2 - 5x)(2x^2 + 6x - 1)$. Which of the following shows the correct product?

A. $2x^4 - 7x^3 - x^2 - 30x^2 + 6x$

C. $2x^4 - 6x^3 - 30x^2 + 6x$

B. $2x^4 - 7x^3 - 11x^2 - 30x^2 + 6x$

D. $2x^4 + 5x^3 - x^2 - 11x^2 - 6x$

3. A4. Simplify $(7x^2 - 3x^2 + 3) + (x^2 - x - 5)$.

F. $7x^2 - 3x^2 - x - 2$

H. $3x^2 - 3x^2 - 2$

G. $6x^2 - 3x^2 - 2$

J. $3x^2 - x^2 - x - 2$

4. J5. Simplify $(6x - 4)^2$.

A. $36x^2 - 16$

C. $36x^2 - 48x + 16$

B. $36x^2 - 24x + 16$

D. $36x^2 - 18x + 16$

5. C6. Simplify $(6x^2 - 10x^2 + 11x - 6) + (3x - 2)$.

F. $6x^2 - 12x + 8 - \frac{2}{3x - 2}$

H. $2x^2 - 4x + 1 - \frac{2}{3x - 2}$

G. $2x^2 - 4x + 1 - \frac{1}{3x - 2}$

J. $x^2 + 9x - 2 - \frac{8}{3x - 2}$

6. H7. Which represents the correct synthetic division of $(13x^2 - 2x + 3) \div (x - 2)$?

A.
$$\begin{array}{r|rrr} 2 & 13 & -2 & 3 \\ & & 26 & 50 \\ \hline & 13 & 24 & 53 \end{array}$$

C.
$$\begin{array}{r|rrrr} 2 & 13 & -2 & -2 & 3 \\ & & 26 & 48 & 94 \\ \hline & 13 & 24 & 46 & 97 \end{array}$$

B.
$$\begin{array}{r|rrr} -2 & 13 & -2 & 3 \\ & & -26 & 50 \\ \hline & 13 & -28 & 53 \end{array}$$

D.
$$\begin{array}{r|rrrr} -2 & 13 & -2 & -2 & 3 \\ & & -26 & 48 & -94 \\ \hline & 13 & -28 & 46 & -91 \end{array}$$

7. C8. Factor $27x^3 - 8$ completely.

F. $(3x - 2)(9x^2 + 3x + 1)$

H. $(3x - 2)(9x^2 - 3x + 1)$

G. $(3x - 2)^3$

J. $(3x - 2)(9x^2 + 3x + 1)$

8. F9. Find $g(-2)$ if $g(x) = 4x^2 - 5x^3 + 3x - 10$.

A. -34

B. 32

C. -184

D. -142

9. C

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