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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Let *x*, *y*, and *z* represent three real numbers. Write an algebraic expression to denote the product of *z*, *x*, and *y*.

|  |  |  |
| --- | --- | --- |
|   | a.  |  |
|   | b.  |  |
|   | c.  |  |
|   | d.  |  |
|   | e.  |  |

|  |  |
| --- | --- |
| *ANSWER:* | c |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2. Let *y* =  and *z =* . Write the phrase as an algebraic expression, and evaluate it.*z* less than *y*

|  |  |  |
| --- | --- | --- |
|   | a.  |  |
|   | b.  |  |
|   | c.  |  |
|   | d.  |  |
|   | e.  |  |

|  |  |
| --- | --- |
| *ANSWER:* | b |

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| 3. Fill in the blanks to write the algebraic expression as a phrase.3*x*The \_\_\_\_\_\_\_\_\_\_(product/quotient/sum/difference) obtained when the \_\_\_\_\_\_\_\_\_\_(product of *x* and 3/quotient of *x* and 3/cube of *x*) is divided by the \_\_\_\_\_\_\_\_\_\_(product of *y* and *z*/quotient of *y* and *z*/sum of *y* and *z*/difference of *y* and *z*).

|  |  |
| --- | --- |
| *ANSWER:* | quotient; product of x and 3; sum of y and z |

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| 4. Evaluate the algebraic expression for the given values of the variables.9(*x* - 4) - 5(*x* + 9), *x* = 4

|  |  |  |
| --- | --- | --- |
|   | a.  | 7 |
|   | b.  | 25 |
|   | c.  | –75 |
|   | d.  | –65 |
|   | e.  | 16 |

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| *ANSWER:* | d |

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| 5. Evaluate the algebraic expression for the given value of the variable.

|  |  |  |
| --- | --- | --- |
|   | a.  |  |
|   | b.  |  |
|   | c.  |  |
|   | d.  |  |
|   | e.  |  |

|  |  |
| --- | --- |
| *ANSWER:* | a |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6. If , , and , evaluate the expression.

|  |  |  |
| --- | --- | --- |
|   | a.  |  |
|   | b.  |  |
|   | c.  |  |
|   | d.  |  |
|   | e.  |  |

|  |  |
| --- | --- |
| *ANSWER:* | d |

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| 7. Give the number of terms in the algebraic expression and also give the numerical coefficient of the second term. –3*a* + 30*b*

|  |  |  |
| --- | --- | --- |
|   | a.  | 2; 30 |
|   | b.  | 2; –3 |
|   | c.  | 2; *a* |
|   | d.  | 2; *b* |

|  |  |
| --- | --- |
| *ANSWER:* | a |

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| 8. Give the number of terms in the algebraic expression and also give the numerical coefficient of the third term. 2*xyz* - 10*xy* - 49*yz*

|  |  |  |
| --- | --- | --- |
|   | a.  | 3; -2 |
|   | b.  | 3; -49 |
|   | c.  | 3; 2 |
|   | d.  | 3; 10 |

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| --- | --- |
| *ANSWER:* | b |

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| 9. Give the number of terms in the algebraic expression and also give the numerical coefficient of the first term. –11*ab*

|  |  |  |
| --- | --- | --- |
|   | a.  | 1; 0 |
|   | b.  | 1; 11 |
|   | c.  | 1; *ab* |
|   | d.  | 1; –11 |

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| --- | --- |
| *ANSWER:* | d |

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