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| **Elementary Algebra: Basic Operations with Polynomials)** | |
| 2. | Which of the following expressions represents the product of 3 less than twice *x* and 2 more than the quantity 3 times *x* ? **A.** –6*x*2 + 25*x* + 6 **B.** 6*x*2 + 5*x* + 6 **C.** 6*x*2 – 5*x* + 6 **D.** 6*x*2 – 5*x* – 6 **E.** 6*x*2 – 13*x* – 6 |
| **(Elementary Algebra: Substituting Values into Algebraic Expressions)** | |
| 3. | If *x* = –1 and *y* = 2, what is the value of the expression 2*x*3 – 3*xy* ? **A.** 8 **B.** 4 **C.** –1 **D.** –4 **E.** –8 |
| **(Intermediate Algebra: Rational Expressions)** | |
| 4. | For all *r*is not equal to plus or minus 2, (r squared - 5r + 6) over (r squared - 4 = ? **A.**(r - 3) over (r + 2)  **B.**(r - 2) over (r + 2)  **C.**(r - 2) over (r + 3)  **D.**(r + 3) over (r - 2)  **E.**(r + 3) over (r + 2) |
| **(Coordinate Geometry: Linear Equations in Two Variables)** | |
| 5. | What is the equation of the line that contains the points with (*x*,*y*) coordinates(–3,7) and (5,–1) ? **A.** *y* = 3*x* – 2 **B.** *y* = *x* + 10 **C.** *y* = –1/3*x* + 8 **D.** *y* = –3/2*x* + 11/4 **E.** *y* = –*x* + 4 |

**Answers:**

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| 1. D | 2. D | 3. B | 4. A | 5. E |