

Algebra

A061-Bi times Tri, complex Proportions



Simplify the following expressions.

<p>1. $(6x + 7)(2x^2 + 2x + 2)$ A) $4x^3 + 33x^2 + 32x + 6$ B) $14x^3 + 39x^2 - 49x + 10$ C) $15x^3 - 4x^2 - 9x - 2$ D) $12x^3 + 26x^2 + 26x + 14$</p>	<p>6. $(3r + 5)(5r^2 - 6r + 7)$ A) $15r^3 + 7r^2 - 9r + 35$ B) $5r^3 - 33r^2 - 31r + 35$ C) $4r^3 + 4r^2 + 4r - 56$ D) $16r^3 + 6r^2 - 14r - 4$</p>
<p>2. $(8x + 4)(8x^2 - 4x - 3)$ A) $15x^3 - 22x^2 - 39x - 24$ B) $14x^3 - 9x^2 - 4x - 21$ C) $16x^3 - 36x^2 + 46x - 21$ D) $64x^3 - 40x - 12$</p>	<p>7. $(6x - 3)(8x^2 + x + 8)$ A) $8x^3 + 27x^2 - 18x + 8$ B) $48x^3 - 18x^2 + 45x - 24$ C) $64x^3 - 8x^2 - 4x + 8$ D) $30x^3 + 49x^2 + 38x + 15$</p>
<p>3. $(6m - 8)(5m^2 + 3m - 2)$ A) $30m^3 - 22m^2 - 36m + 16$ B) $4m^3 + 7m^2 - 25m - 21$ C) $10m^3 + 3m^2 - 38m + 24$ D) $7m^3 + 7m^2 - 21 - 14$</p>	<p>8. $(3n + 8)(7n^2 + 3n - 6)$ A) $12n^3 + 22n^2 + 26n + 24$ B) $12n^3 + 50n^2 + 76n + 42$ C) $42n^3 + 34n^2 - 37n - 24$ D) $21n^3 + 65n^2 + 6n - 48$</p>
<p>4. $(v + 5)(3v^2 + 7v - 4)$ A) $3v^3 + 22v^2 + 31v - 20$ B) $48v^3 + 44v^2 - 44v - 35$ C) $12v^3 + 2v^2 - 39v - 15$ D) $5v^3 + 4v^2 - 3v - 2$</p>	<p>9. $(6n - 1)(4n^2 + 4n + 6)$ A) $24n^3 + 27n^2 - 26n - 14$ B) $2n^3 - 10 - 3n$ C) $24n^3 + 20n^2 + 32n - 6$ D) $42n^3 + 66n^2 + 45n + 12$</p>
<p>5. $(7n - 8)(6n^2 - 5n - 2)$ A) $16n^3 + 44n^2 + 4n - 15$ B) $42n^3 - 83n^2 + 26n + 16$ C) $6n^3 - 21n^2 - 3n + 18$ D) $24n^3 - 54n^2 + 18n + 12$</p>	<p>10. $(6x - 8)(8x^2 - 4x - 2)$ A) $48x^3 - 88x^2 + 20x + 16$ B) $7x^3 + 63x^2 + 35x - 21$ C) $35x^3 + 20x^2 + 10x + 25$ D) $21x^3 - 4x^2 + 20x + 3$</p>