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Q7PT2

SU '14

Quiz 7 SU14 CRN 10113 SEC 83---4.1 AND 4.2
1. Simplify. $x^8 \cdot x^7$
2. Simplify. x^8 / x^7
3. Simplify. $(a^8 \cdot b^7) \cdot (a^4 \cdot b^3)$
4. $(a^8)^2$
5. $(a^8 \cdot b^7)^2$
6. $(a^8 \cdot b^7) \cdot (a^4 \cdot b^3)^2$
7. COMBINE LIKE TERMS. $9x - 2x^2 + 4x^2 + 2x$
8. COMBINE LIKE TERMS. $12x - 2x^2 + 32x$
9. COMBINE LIKE TERMS. $9x^8 - 6x^4 + 2x^2 + 33 + 8x^7 + 4x^2 + 2x + 33$

Quiz 7 pt 2

Graded

(1) $x^6 \cdot x^7 = x^{13}$

(2) $\frac{x^6}{x^5} = x^1$

(3) $(a^8 \cdot b^7) \cdot (a^4 \cdot b^3)$

$= a^{12} b^{10}$

(4) $(a^8)^2 = a^{16}$

(5) $(a^8 b^7)^2$

$= (a^8)^2 \cdot (b^7)^2$

$= a^{16} \cdot b^{14}$

(6) $(a^8 b^7)(a^4 \cdot b^3)^2$

$= a^8 b^7 \cdot (a^4)^2 \cdot (b^3)^2$

$= a^8 b^7 \cdot a^8 \cdot b^6$

$a^{16} \cdot b^{13}$

(7) $9x - 2x^2 + 4x^2 + 2x$

$= 11x + 4x^2$

$= 4x^2 + 11x$

(8) $12x - 2x^2 + 32x$

$44x - 2x^2 = -2x^2 + 44x$

QUIZ > PT. 2

9.

$9x^8 - 6x^4 + 2x^2 + 33 + 8x^7 + 4x^2 + 2x + 33$

$= 9x^8 + 8x^7 - 6x^4 + 6x^2 + 2x + 66$

descending powers