

**Do Now****Simplify**

1)  $(x + 3y - 7) - (6y + 2 - 8x)$

$$\begin{array}{r} 9x - 3y - 9 \\ \hline \end{array}$$

2)  $\frac{(3x+4)(x+2)}{3x^2+3x+15} - 7(x-1)$

$$\begin{array}{r} -18x^2y \\ \hline 6xy^3 \\ \overline{-3x} \\ \overline{y^2} \end{array}$$

4)  $(2a^2b)^3(a^6b^3)$   
 $2^3 a^6 b^3 (a^6 b^3)$   
 $8a^{12} b^6$

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**Homework Answers**

1.  $-9x + 5$

11.  $7x - 18$

2.  $20x - 30$

12.  $10y^2 - y + 3$

3.  $8x - 9$

13.  $-22a + 33$

4.  $x - 1$

14.  $-x + 18$

5.  $-3c + 12$

15.  $2x^2 + 8$

6.  $23z + 1$

16.  $5x - 20$

7.  $rs - st$

17.  $3x^2 + 16x + 31$

8.  $3c^2 - 22c$

18.  $11y^2 - 39y - 20$

9.  $5y + 60$

19.  $33x^2 + 31x - 40$

10.  $18y^2 + 24y - 24$

20.  $21c^2 + 11cd - 40d^2$

Mar 28-6:51 AM

- **Exponent Rules**

- > Multiplication
- > Division
- > Power to a Power
- > Negative Exponents

*Test Topics*

- **Polynomial Operations**

- > Addition (Combine Like Terms)
  - > Subtraction (Distribute -1 then Add)
  - > Multiplication
    - Monomial x Monomial
    - Monomial x Polynomial (Distributive)
    - Polynomial x Polynomial (Box)
  - > Division
    - Polynomial by a Monomial
- > **Geometric Applications**
    - Perimeter
    - Area

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