Classwork 3

Intermediate Algebra MTH 35

Topic: Exponents

Jame:	
Simplify the following expression	ns.
1. $x^2x^3x^5$	ANSWER
2. $x^2y^2x^4y^3$	ANSWER
$3. \ xyzx^2y^3z^4$	ANSWER
4. $\frac{x^3}{x^2}$	ANSWER
5. $\frac{x^5}{x^2x^6}$	ANSWER
6. $\frac{x^5x^3}{x^4}$	ANSWER
7. $\frac{x^2y^3}{y^2x^5}$	ANSWER
8. $\frac{xy}{x^3y^2z}$	ANSWER
9. $\frac{1}{x^{-2}}$	ANSWER
10. $(xy)^{-3}$	ANSWER

11.
$$x^{-2}x^4x^3$$

ANSWER _____

12.
$$\frac{x^{-1}x^7}{x^2x^{-3}}$$

ANSWER _____

13.
$$\frac{x^{-1}y^2}{y^{-2}x^3}$$

ANSWER _____

14.
$$\frac{x^2z^2}{y^2x^4} \frac{y^3x}{z^4x^2y}$$

ANSWER _____

15.
$$(x^2)^2 x^3$$

ANSWER _____

16.
$$(y^3)^2(y^2)^3$$

ANSWER _____

17.
$$(xy)^2x^3y^2$$

ANSWER _____

18.
$$(xyz)^4x^2z^{-3}y^{-1}$$

ANSWER _____

$$19. \ \frac{x^{-1}y^2}{y^{-2}x^3}$$

ANSWER _____

$$20. \ \frac{x^3y^{-7}}{y^4x^{-3}}$$

ANSWER _____