1.(1 pt) Evaluate the expression -4^4.

[NOTE: Your answer cannot be an algebraic expression.]

2.(1 pt) Evaluate the expression $4^3 + 4^5$.

[NOTE: Your answer cannot be an algebraic expression.]

3.(1 pt) Evaluate the expression $3^{-3}5^2$.

[NOTE: Your answer cannot be an algebraic expression.]

4.(1 pt) Evaluate the expression $\left(\frac{3}{-2}\right)^5$.

[NOTE: Your answer cannot be an algebraic expression.]

5.(1 pt) Evaluate the expression $\frac{5^3}{5^2}$.

[NOTE: Your answer cannot be an algebraic expression.]

6.(1 pt) Evaluate the expression $\frac{2^3}{4^{-4}}$.

[NOTE: Your answer cannot be an algebraic expression.]

7.(1 pt) Evaluate the expression $\sqrt[5]{-243}$.

[NOTE: Your answer cannot be an algebraic expression.]

8.(1 pt) Evaluate the expression $\sqrt{25+144}$.

[NOTE: Your answer cannot be an algebraic expression.]

9.(1 pt) Evaluate the expression $\sqrt{\frac{10\cdot 8}{5}}$.

[NOTE: Your answer cannot be an algebraic expression.]

10.(1 pt) Evaluate the expression $64^{-4/3}$.

[NOTE: Your answer cannot be an algebraic expression.]

11.(1 pt) The expression $\frac{2^4 2^4 2^{-4}}{\sqrt{4^5 2^5 2^{-3}}}$ equals 2^n where n is:

12.(1 pt) The expression $(3a^5b^2c^4)^2(2a^5b^5c^4)^3$ equals $na^rb^sc^t$
where n, the leading coefficient, is: _____
and r, the exponent of a, is: _____
and s, the exponent of b, is: _____
and finally t, the exponent of c, is: _____
[NOTE: Your answers cannot be algebraic expressions.]

13.(1 pt) The expression $\left(\frac{x^5y^4z^3x^{-2}}{x^4y^5z^2y^4}\right)^{-4}$ equals $x^ry^sz^t$
where r, the exponent of x, is: _____
and s, the exponent of y, is: _____
and finally t, the exponent of z, is: _____
[NOTE: Your answers cannot be algebraic expressions.]

14.(1 pt) The expression $\sqrt{x^4y^4}\sqrt[3]{x^2y^4}\sqrt[5]{x^2}$ equals x^ry^s
where r, the exponent of x, is: _____
and s, the exponent of y, is: _____

15.(1 pt) The expression $\sqrt{x^4y^2}\sqrt[3]{x^5y^3}\sqrt[5]{x^5}$ equals x^ry^s
where r, the exponent of x, is: _____
and s, the exponent of y, is: _____

16.(1 pt) The expression $\sqrt[3]{\sqrt{64x^3}}$ equals nx^r
where n, the leading coefficient, is: _____
and r, the exponent of x, is: _____

17.(1 pt) If you rationalize the denominator of

$$\frac{1}{5\sqrt{5}-4\sqrt{3}}$$

then you will get

$$\frac{r\sqrt{5}+s\sqrt{3}}{n}$$

where r, s, and n are all positive integers (with no common factors).
$r =$ _____
$s =$ _____
$n =$ _____
[NOTE: Your answers cannot be algebraic expressions.]

18.(1 pt) Find x if

$$\frac{(2.9)^x(2.9)^{-2}}{(2.9)^{-2}} = (2.9)^8$$

$x =$ _____