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Power of a Product Rule

Practice Worksheet A

1 Practice Problems

Simplify by using the Power of a Product Rule.

1) $(3 \cdot 10)^2$

6) $(8^2 \cdot 3^7)^5$

2) $(9 \cdot 6)^7$

7) $(4^5 \cdot 2^4)^8$

3) $(4 \cdot 5)^{10}$

8) $(4 \cdot y^6)^3$

4) $(a \cdot b)^{13}$

9) $(x^5 \cdot y^6 \cdot z^7)^2$

5) $(a \cdot b)^{20}$

10) $(4^2 \cdot y^4 \cdot z^6)^5$

Power of a Product Rule

Practice Worksheet A

1 Practice Problems

Simplify by using the Power of a Product Rule.

1) $(3 \cdot 10)^2$ $3^2 \cdot 10^2$

6) $(8^2 \cdot 3^7)^5$ $8^{10} \cdot 3^{35}$

2) $(9 \cdot 6)^7$ $9^7 \cdot 6^7$

7) $(4^5 \cdot 2^4)^8$ $4^{40} \cdot 2^{32}$

3) $(4 \cdot 5)^{10}$ $4^{10} \cdot 5^{10}$

8) $(4 \cdot y^6)^3$ $4^3 \cdot y^{18}$

4) $(a \cdot b)^{13}$ $a^{13} \cdot b^{13}$

9) $(x^5 \cdot y^6 \cdot z^7)^2$ $x^{10} \cdot y^{12} \cdot z^{14}$

5) $(a \cdot b)^{20}$ $a^{20} \cdot b^{20}$

10) $(4^2 \cdot y^4 \cdot z^6)^5$ $4^{10} \cdot y^{20} \cdot z^{30}$