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Product Rule

Practice Worksheet A

1 Practice Problems

Simplify using the Product Rule.

1) $8^4 \cdot 8^{11}$

6) $3^{-3}5^7 \cdot 3^55^4$

2) $9 \cdot 9^3$

7) $2^79^{-6} \cdot 9^9$

3) $7^{-3} \cdot 7^{17}$

8) $4^8 \cdot 4^58^3$

4) $a^{-1} \cdot a^5$

9) $a^{-10}b^{-6} \cdot a^{14}b^{30}$

5) $x^{30} \cdot x^{-5}$

10)

Product Rule

Practice Worksheet A

1 Practice Problems

Simplify using the Product Rule.

1) $8^4 \cdot 8^{11}$ **8^{15}**

6) $3^{-3}5^7 \cdot 3^55^4$ **$3^{25}5^{11}$**

2) $9 \cdot 9^3$ **9^4**

7) $2^79^{-6} \cdot 9^9$ **2^79^3**

3) $7^{-3} \cdot 7^{17}$ **a^4**

8) $4^8 \cdot 4^58^3$ **a^4b^{24}**

4) $a^{-1} \cdot a^5$ **a^{25}**

9) $a^{-10}b^{-6} \cdot a^{14}b^{30}$ **$a^{10}b^2$**

5) $x^{30} \cdot x^{-5}$ **18^{15}**

10) **x^{200}**