Name: _____ Score:

Product Rule

Algebra: E2

Use product rule and simplify. Write your answers in positive exponents.

1) $r^5 \cdot r^9$

2) $n^{-2} \cdot n^6$

3) $v^7 \cdot v^{-5}$

4) $t^{-4} \cdot t^{-5}$

5) $d^3 \cdot d^{-5}$

6) $m^{-3} \cdot m^7$

7) $p^2 \cdot p^{-4}$

$\cdot b^{-8}$

10) $k^{-9} \cdot k^4$

$\cdot x^2$

13) $w^6 \cdot w^5$

$\cdot a^{-3}$

16) $y^{-2} \cdot y^4$

$\cdot v^{-8}$

19) $g^7 \cdot g^{-3}$

20) $s^{-10} \cdot s^{-8}$

21) $p^{-10} \cdot p^4$

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Name: _____ Answer key Score:

Product Rule

Algebra: E2

1) $r^5 \cdot r^9$

$= r^{14}$

2) $n^{-2} \cdot n^6$

$= n^4$

3) $v^7 \cdot v^{-5}$

$= v^2$

4) $t^{-4} \cdot t^{-5}$

$= \frac{1}{t^9}$

5) $d^3 \cdot d^{-5}$

$= \frac{1}{d^2}$

6) $m^{-3} \cdot m^7$

$= m^4$

7) $p^2 \cdot p^{-4}$

$= \frac{1}{p^2}$

$\cdot b^{-8}$

$\cdot x^2$

10) $k^{-9} \cdot k^4$

$= \frac{1}{k^5}$

13) $w^6 \cdot w^5$

$= w^{11}$

$\cdot a^{-3}$

16) $y^{-2} \cdot y^4$

$= y^2$

$\cdot v^{-8}$

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19) $g^7 \cdot g^{-3}$

$= g^4$

20) $s^{-10} \cdot s^{-8}$

$= \frac{1}{s^{18}}$

21) $p^{-10} \cdot p^4$

$= \frac{1}{p^6}$