Name: _____ Score:

Product Rule

Algebra: E1

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

1) $z^2 \cdot z^{-6}$

2) $u^{10} \cdot u^2$

3) $r^{-4} \cdot r^{-3}$

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

5) $k^{-7} \cdot k^{-5}$

6) $s^3 \cdot s^6$

7) $l^{-8} \cdot l^{-2}$

$\cdot x^7$

10) $q^8 \cdot q^9$

$\cdot d^5$

13) $y^4 \cdot y^{-7}$

$^7 \cdot m^{-9}$

16) $w^7 \cdot w^{-2}$

$\cdot t^4$

19) $v^{-5} \cdot v^{-4}$

20) $a^9 \cdot a^{-3}$

21) $h^5 \cdot h^9$

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Name: _____ Answer key Score:

Product Rule

Algebra: E1

1) $z^2 \cdot z^{-6}$

$= \frac{1}{z^4}$

2) $u^{10} \cdot u^2$

$= u^{12}$

3) $r^{-4} \cdot r^{-3}$

$= \frac{1}{r^7}$

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

$= n^1$

5) $k^{-7} \cdot k^{-5}$

$= \frac{1}{k^{12}}$

6) $s^3 \cdot s^6$

$= s^9$

7) $l^{-8} \cdot l^{-2}$

$= \frac{1}{l^{10}}$

$\cdot x^7$

10) $q^8 \cdot q^9$

$= q^{17}$

$\cdot d^5$

13) $y^4 \cdot y^{-7}$

$= \frac{1}{y^3}$

$^7 \cdot m^{-9}$

$\frac{}{6}$

16) $w^7 \cdot w^{-2}$

$= w^5$

$\cdot t^4$

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19) $v^{-5} \cdot v^{-4}$

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

20) $a^9 \cdot a^{-3}$

$= a^6$

21) $h^5 \cdot h^9$

$= h^{14}$