

Name : _____

Simplifying Expressions: Exponents

ES4

Simplify each expression.

1) $\frac{24b^9}{4b^2}$

2) $(2v^{-11})(7v^7)$

3) $(6z^6)(3z^{-3})$

4) $3q^{-2}$

5) $(2r^{-8})(5r^{-13})$

7) $\frac{8a^{-10}}{32a^{-4}}$

9) $(4u^{-1})(4u^{-15})$

10) $\frac{45d^{-7}}{9d^{-9}}$

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Name : _____

Answer key

Simplifying Expressions: Exponents

ES4

Simplify each expression.

1) $\frac{24b^9}{4b^2}$

$6b^7$

2) $(2v^{-11})(7v^7)$

$\frac{14}{v^4}$

3) $(6z^6)(3z^{-3})$

$18z^3$

4) $3q^{-2}$

5) $(2r^{-8})(5r^{-13})$

$\frac{10}{r^{21}}$

7) $\frac{8a^{-10}}{32a^{-4}}$

$\frac{1}{4a^6}$

9) $(4u^{-1})(4u^{-15})$

$\frac{16}{u^{16}}$

10) $\frac{45d^{-7}}{9d^{-9}}$

$5d^2$

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