

Name : _____

Simplifying Expressions: Exponents

ES1

Simplify each expression.

1) $(3s^{13})(9s^{-5})$

2) $\frac{2x^{-12}}{8x^{-5}}$

3) $\frac{6p^7}{p^{-2}}$

4) $15m^5$

5) $(4y^{-17})(11y^2)$

7) $\frac{90k^4}{10k^{-2}}$

9) $(4c^{-5})(9c^{-6})$

10) $\frac{6z^{-2}}{12z^{-1}}$

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Name : _____

Answer key

Simplifying Expressions: Exponents

ES1

Simplify each expression.

1) $(3s^{13})(9s^{-5})$

$27s^8$

2) $\frac{2x^{-12}}{8x^{-5}}$

$\frac{1}{4x^7}$

3) $\frac{6p^7}{p^{-2}}$

$6p^9$

4) $15m^5$

5) $(4y^{-17})(11y^2)$

$\frac{44}{y^{15}}$

7) $\frac{90k^4}{10k^{-2}}$

$9k^6$

9) $(4c^{-5})(9c^{-6})$

$\frac{36}{c^{11}}$

10) $\frac{6z^{-2}}{12z^{-1}}$

$\frac{1}{2z}$

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