

Name : \_\_\_\_\_

## Simplifying Expressions: Exponents

ES2

Simplify each expression.

1)  $\frac{25x^5}{5x^{-4}}$

2)  $(7a^3)(2a^{-4})$

3)  $(4s^{-4})(10s^{11})$

4)  $9z^{-4}$

5)  $\frac{11}{55p^{-4}}$

7)  $(6y^{-3})(3y^{-7})$

9)  $\frac{18r^{-6}}{9r^{-7}}$

10)  $\frac{7k^{-7}}{49k^{-2}}$

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**Answer key**

**Simplifying Expressions: Exponents**

ES2

Simplify each expression.

1)  $\frac{25x^5}{5x^{-4}}$

$5x^9$

2)  $(7a^3)(2a^{-4})$

$\frac{14}{a}$

3)  $(4s^{-4})(10s^{11})$

$40s^7$

4)  $9z^{-4}$

5)  $\frac{11}{55p^{-4}}$

$\frac{1}{5}p^4$

7)  $(6y^{-3})(3y^{-7})$

$\frac{18}{y^{10}}$

9)  $\frac{18r^{-6}}{9r^{-7}}$

$2r$

10)  $\frac{7k^{-7}}{49k^{-2}}$

$\frac{1}{7k^5}$

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