

10.2**Practice**

For use after Lesson 10.2

Simplify the expression. Write your answer as a power.

1. $(-6)^5 \cdot (-6)^4$

2. $x^1 \cdot x^9$

3. $\left(\frac{4}{5}\right)^3 \cdot \left(\frac{4}{5}\right)^{12}$

4. $(-1.5)^{11} \cdot (-1.5)^{11}$

5. $(y^{10})^{20}$

6. $\left(\left(-\frac{2}{9}\right)^8\right)^7$

Simplify the expression.

7. $(2a)^6$

8. $(-4b)^4$

9. $\left(-\frac{9}{10}p\right)^2$

10. $(xy)^{15}$

11. $10^5 \cdot 10^3 - (10^1)^8$

12. $7^2(7^4 \cdot 7^4)$

13. The surface area of the Sun is about $4 \times 3.141 \times (7 \times 10^5)^2$ square kilometers.
Simplify the expression.