Multiplying Monomials: The Product and Power Rules

1. Simplify each expression (similar to p.330 #24)

$$x^5 \cdot x^2$$

2. Simplify each expression (similar to p.330 #28)

$$y^8 \cdot y$$

3. Simplify each expression (similar to p.330 #32)

$$(-x)(-x)^3$$

4. Simplify each expression (similar to p.330 #34)

$$(2^3)^2$$

5. Simplify each expression (similar to p.330 #38)

$$\left[(-x)^3\right]^5$$

6. Simplify each expression
(similar to p.330 #40)

$$(k^4)^5$$

7. Simplify each expression
(similar to p.330 #44)

$$\left(3y^5\right)^2$$

8. Simplify each expression
(similar to p.330 #48)

$$\left(\frac{3}{5}x^3\right)^2$$

9. Simplify each expression
(similar to p.330 #50)

$$\left(-3m^4n^5\right)^4$$

10. Simplify each expression
(similar to p.330 #52)

$$\left(-2xy^4\right)^3$$

11. Simplify each expression
(similar to p.330 #56)

$$(3y^4)(5y^{10})$$

12. Simplify each expression
(similar to p.330 #64)

$$(2a^3b^{10})(3ab^7)$$

13. Simplify each expression
(similar to p.330 #68)

$$\left(\frac{3}{4}x\right)\left(-12x^3y\right)\left(\frac{-2}{9}x\right)$$