

2-2 Multiplying Monomials

Period _____

Multiply. Write your answer in simplest form.

1) $2 \cdot x$

2) $y \cdot 4x$

3) $3x \cdot 3x$

4) $1 \cdot 7y$

Find each product.

5) $3(3x + 2)$

6) $4(x - 2)$

7) $4(3k - 2)$

8) $3(4x + 2)$

9) $5y^2(2x + y)$

10) $5(5m - 2n)$

11) $2x(5x - 2y)$

12) $3b(4a + 5b)$

13) $2a(-2a^2 + 4ab - 3b^2)$

14) $-3(x^2 + 4xy + 5y^2)$

15) $7(-3x^2 + 4xy + y^2)$

16) $-2n^2(-3m^2 - 8mn - 4n^2)$

Simplify.

17) $3xx^3$

18) $2x \cdot 2x$

Simplify. Your answer should contain only positive exponents with no fractional exponents in the denominator.

19) $2m^{\frac{3}{2}} \cdot 3m^{\frac{2}{3}}$

20) $2r^{\frac{5}{3}} \cdot 2r^{-\frac{5}{3}}$