

4-3 Skills Practice

Dividing Polynomials

Simplify.

$$1. \frac{10c + 6}{2} \quad 5c + 3$$

$$2. \frac{12x + 20}{4} \quad 3x + 5$$

$$3. \frac{15y^3 + 6y^2 + 3y}{3y} \quad 5y^2 + 2y + 1$$

$$4. \frac{12x^2 - 4x - 8}{4x} \quad 3x - 1 - \frac{2}{x}$$

$$5. (15q^6 + 5q^3)(5q^4)^{-1} \\ 3q^2 + \frac{1}{q^2}$$

$$6. (4f^5 - 6f^4 + 12f^3 - 8f^2)(4f^2)^{-1} \\ f^3 - \frac{3f^2}{2} + 3f - 2$$

$$7. (6j^2k - 9jk^2) \div 3jk \\ 2j - 3k$$

$$8. (4a^2h^2 - 8a^3h + 3a^4) \div (2a^2) \\ 2h^2 - 4ah + \frac{3a^2}{2}$$

$$9. (n^2 + 7n + 10) \div (n + 5) \\ n + 2$$

$$10. (d^2 + 4d + 3) \div (d + 1) \\ d + 3$$

$$11. (2t^2 + 13t + 15) \div (t + 5) \\ 2t + 3$$

$$12. (6y^2 + y - 2)(2y - 1)^{-1} \\ 3y + 2$$

$$13. (4g^2 - 9) \div (2g + 3) \\ 2g - 3$$

$$14. (2x^2 - 5x - 4) \div (x - 3) \\ 2x + 1 - \frac{1}{x - 3}$$

$$15. \frac{u^2 + 5u - 12}{u - 3} \quad u + 8 + \frac{12}{u - 3}$$

$$16. \frac{6x^3 + 5x^2 + 9}{2x + 3} \quad 3x^2 - 2x + 3$$

$$17. (3v^2 - 7v - 10)(v - 4)^{-1} \\ 3v + 5 + \frac{10}{v - 4}$$

$$18. (3t^4 + 4t^3 - 32t^2 - 5t - 20)(t + 4)^{-1} \\ 3t^3 - 8t^2 - 5$$

$$19. \frac{y^3 - y^2 - 6}{y^2 + 2} \\ y^2 - 3y + 6 - \frac{18}{y + 2}$$

$$20. \frac{2x^3 - x^2 - 19x + 15}{2x^2 + 5x - 4} \\ x - 3 + \frac{3}{x - 3}$$

$$21. (4p^3 - 3p^2 + 2p) \div (p - 1) \\ 4p^2 + p + 3 + \frac{3}{p - 1}$$

$$22. (3c^4 + 6c^3 - 2c + 4)(c + 2)^{-1} \\ 3c^2 - 2 + \frac{8}{c + 2}$$

23. **GEOMETRY** The area of a rectangle is $x^3 + 8x^2 + 13x - 12$ square units. The width of the rectangle is $x + 4$ units. What is the length of the rectangle? $x^2 + 4x - 3$ units

Algebra 2 Practice 4 Ellipses Answers

Brendan G. Carr

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