Name: Worksheet 433

▶ **Divide.**

4. $\frac{12n^2 + 6}{6}$

5. $\frac{8n + 2}{2}$

6. $\frac{21n^2 + 7n}{7n}$

7. $\frac{n^2 + n}{n}$

8. $\frac{3n^3 + 3n^2}{3n}$

9. $\frac{24c + 12}{12}$

10. $\frac{15x^2 + 5x}{5x}$

11. $\frac{6d + {}^{-}3}{3}$

12. $\frac{d^3 + d^2}{d}$

13. $\frac{20x^2 + 10x}{5x}$

14. $\frac{16a^2 + {}^{-}8a}{4}$

15. $\frac{18e^3 + 12e^2}{6e}$

16. $\frac{15a + 30b}{5}$

17. $\frac{6m + {}^{-}3n}{3}$

18. $\frac{7x^2 + 14y}{7}$

19. $\frac{{}^{-}20a + 15b}{5}$

20. $\frac{9ab^2 + 3b}{3b}$

21. $\frac{6a^2b + {}^{-}4b}{2b}$

22. $\frac{12x^2y^2 + 6xy}{6xy}$

23. $\frac{12n^2 + 10n + 6}{2}$

24. $\frac{25b^2 + 15b + 10}{5}$

25. $\frac{16y^2 + {}^{-}8y + 12}{4}$

26. $\frac{20x^3 + 15x^2 + 10x}{5x}$

27. $\frac{3a^3 + {}^{-}6a^2 + 9a}{3a}$

28. $\frac{12n^3 + 16n^2 + {}^{-}20n}{4n}$

PRACTICE

WS 253

Find each quotient below. Is the quotient a polynomial?

5. $\frac{12a + 15}{3}$

6. $\frac{14y + 7}{7}$

7. $\frac{20x - 8}{-4}$

8. $\frac{-100d + 50}{25}$

9. $\frac{8c^2 - 8c}{2c}$

10. $\frac{-10r^2 + 2r}{-2r}$

11. $\frac{10s^3 - 20s^2}{4s}$

12. $\frac{6v^3 - 24v^2}{-6v}$

13. $\frac{a^3b^3 + a^2b^2}{ab}$

14. $\frac{c^3d^3 - 3cd}{cd}$

15. $\frac{7k^3p - 49k^2p^3}{7kp}$

16. $\frac{6r^2d + 27r^2d^2}{3rd}$

17. $\frac{s^2 - 1}{s}$

18. $\frac{2r^2 + 1}{r}$

19. $\frac{-12d^2 + 6}{3d}$

20. $\frac{-10q^2 + 2}{-q}$

21. $\frac{14z^3 - 28}{7z}$

22. $\frac{15c^3 - 27}{3c}$

23. $\frac{x^3 + x}{x^2}$

24. $\frac{y^4 - y}{y^2}$

25. $\frac{2z^3 - 6z}{z}$