


Exs. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

Daily Homework Quiz:

- Blackline Master (*Chapter 6 Resource Book*, p. 77)
-  Transparency (p. 46)

$$27. x^2 + 2x - 3 - \frac{12}{x-2}$$

$$28. x^2 - 4x + 2$$

$$29. 4x + 1 - \frac{5}{x+1}$$

$$30. x - 2 - \frac{1}{x-2}$$

$$31. 2x + 11 + \frac{30}{x-2}$$

$$32. 3x + 8 + \frac{48}{x-6}$$

$$24. 10x + 7 + \frac{5}{x^2 + 2x}$$

$$25. 5x^2 - x + 3$$

$$26. 2x - \frac{9}{x^3 + x^2 - 5}$$

HOMEWORK HELP

Example 1: Exs. 15–26

Example 2: Exs. 27–38

Example 3: Exs. 39–46

Example 4: Exs. 47–54

Example 5: Exs. 60–62

... (2x + 1)(x + 2)

- 6.5 PRACTICE AND APPLICATIONS** (pp. 356–358) 38. $4x^3 + x^2 + x - 1$
39. $(x + 2)(x - 3)(x - 4)$ 40. $(x - 6)(x + 1)(x + 2)$ 41. $(x - 10)(x - 4)(x + 2)$
42. $(x - 9)(x - 2)(x - 7)$ 43. $(x + 5)(x - 3)^2$ 44. $(x - 8)(x - 5)(x + 2)$
45. $(x - 1)(2x + 3)(2x - 3)$ 46. $(x + 6)(2x + 1)(x - 3)$ 65. $6x^2 - 7x + 6 -$
 $\frac{4}{2x + 1}, 4x^2 - 4x + 3 - \frac{1}{3x + 1}, 3x^2 - \frac{11}{4}x + \frac{31}{16} + \frac{1}{16(4x + 1)}$;

... 2 ... 4 ... 1 ...

$$49. -5, -\frac{1}{2}$$

$$50. -\frac{2}{5}, \frac{1}{3}$$

$$51. \frac{5 \pm \sqrt{17}}{2}$$

$$52. \frac{11 \pm \sqrt{73}}{8}$$

$$53. 5x^3 - 3x^2 + 21x - 8;$$

... Given one zero of the poly

$$47. f(x) = 9x^3 + 10x^2 - 17x - 2; -2, -\frac{1}{9}, \frac{1}{4}$$

$$49. f(x) = 2x^3 + 3x^2 - 39x - 20; 4 \quad 5$$

$$51. f(x) = x^3 - 14x^2 + 47x - 18; 9 \quad 5$$

$$53. f(x) = x^3 + x^2 + 2x + 24; -3, 1 \pm i\sqrt{7} \quad 5$$

GEOMETRY CONNECTION You are given an