

10) Identify the vertical asymptotes.

$$f(x) = \frac{x+2}{x^2-4}$$

- a) $x = 2, x = -2$
- b) $x = 2, x = -4$
- c) $x = -2$
- d) None

11) State the excluded values for each.

$$\frac{1}{x^2-4}$$

- a) $2, -4$
- b) $2, -2$
- c) $2, 4, -2$
- d) $2, 4, -4$

12) State the possible rational zeros for each function.

$$f(x) = 3x^2 + 4x^2 + 4x + 2$$

- a) $\pm 1, \pm 2, \pm 4, \pm 6, \pm \frac{1}{2}$
- b) ± 1
- c) $\pm 1, \pm \frac{1}{2}$
- d) $\pm 1, \pm \frac{1}{3}$

13) Solve the following equation by completing the square.

$$x^2 + 12x + 36 = -2$$

- a) $2 - 6 \pm \sqrt{100}$
- b) $2 - 6, -2 \pm 2i$
- c) $2 \pm \sqrt{100}$
- d) $(-2, -4)$

14) Name the polynomial by degree and number of terms.

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

- a) Cubic polynomial
- b) Cubic binomial
- c) Cubic monomial
- d) Quadratic binomial

15) Factor completely.

$$3x^2 - 7x - 20$$

- a) $(3x + 7)(x - 20)$
- b) $(3x - 5)(x + 4)$
- c) $(3x + 4)(x - 5)$
- d) $(3x + 5)(x - 4)$

16) Perform the indicated operation.

$$g(x) = -4x + 8$$

$$h(x) = x^2 + 3x$$

Find $g(x) - h(x)$

- a) $-4x^2 + 20x^2 + 12x$
- b) $4x^2 + 14x^2 + 12x$
- c) $3x^2 + 3$
- d) $-4x^2 + 3x$

17) Find all roots.

$$x^2 - x^2 + 3x - 6 = 0$$

- a) $3, 2, -2i$
- b) $3, 2, \sqrt{2}i$
- c) $3, -2, 2i$
- d) $3, 2, \frac{2\sqrt{2}i}{3}$

18) Factor completely.

$$27x^3 + 825$$

- a) $(3x + 5)(9x^2 + 15x + 25)$
- b) $(3x + 5)(9x^2 + 5x^2)$
- c) $(3x + 5)(9x^2 + 15x + 25)$
- d) $(3x + 5)^3$

19) Solve using the quadratic formula.

$$3x^2 + 7x - 2$$

- a) $\frac{-7 \pm \sqrt{49 - 4(3)(-2)}}{2(3)}$
- b) $\frac{-7 \pm \sqrt{49}}{6}$
- c) $\frac{-7 \pm \sqrt{49}}{2}$
- d) $\frac{-7 \pm \sqrt{49}}{6}$

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Joseph A. Murray



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