

8.8 Pg 519 #15-29odd, 57

15.  $q^2 - 121$

16.  $r^4 - k^4$

17.  $6n^4 - 6$

18.  $w^4 - 625$

19.  $r^2 - 9t^2$

20.  $2c^2 - 32d^2$

21.  $h^3 - 100h$

22.  $h^4 - 256$

23.  $2x^3 - x^2 - 162x + 81$

24.  $x^2 - 4y^2$

25.  $7h^4 - 7p^4$

26.  $3c^3 + 2c^2 - 147c - 98$

27.  $6k^2h^4 - 54k^4$

28.  $5a^3 - 20a$

29.  $f^3 + 2f^2 - 64f - 128$

57. **ERROR ANALYSIS** Elizabeth and Lorenzo are factoring an expression. Is either of them correct? Explain your reasoning.

*Elizabeth*

$$16x^4 - 25y^2 = \\ (4x - 5y)(4x + 5y)$$

*Lorenzo*

$$16x^4 - 25y^2 = \\ (4x^2 - 5y)(4x^2 + 5y)$$

8.9 Pg 527 #23-33odd, 81,83

22.  $8c^2 - 88c + 242$

23.  $12x^2 - 84x + 147$

24.  $w^4 - w^2$

25.  $12p^3 - 3p$

26.  $16q^3 - 48q^2 + 36q$

27.  $4t^3 + 10t^2 - 84t$

28.  $x^3 + 2x^2y - 4x - 8y$

29.  $2a^2b^2 - 2a^2 - 2ab^3 + 2ab$

30.  $2r^3 - r^2 - 72r + 36$

31.  $3k^3 - 24k^2 + 48k$

32.  $4c^4d - 10c^3d + 4c^2d^3 - 10cd^3$

33.  $g^2 + 2g - 3h^2 + 4h$

**Find the slope of the line that passes through each pair of points.**

80.  $(5, 7), (-2, -3)$

81.  $(2, -1), (5, -3)$

83.  $(-3, -4), (5, -1)$

84.  $(-2, 3), (8, 3)$