

Review

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$$\begin{array}{c} 3. \quad 12 \\ \swarrow \quad \searrow \\ 2 \quad 6 \\ \swarrow \quad \searrow \\ 2 \quad 3 \\ = 2 \cdot 2 \cdot 3 \end{array}$$

$$\begin{array}{c} 5. \quad 32 \\ \swarrow \quad \searrow \\ 2 \quad 16 \\ \swarrow \quad \searrow \\ 2 \quad 8 \\ \swarrow \quad \searrow \\ 2 \quad 4 \\ \swarrow \quad \searrow \\ 2 \quad 2 \\ = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \end{array}$$

$$\begin{array}{c} 7. \quad 40 \\ \swarrow \quad \searrow \\ 2 \quad 20 \\ \swarrow \quad \searrow \\ 2 \quad 10 \\ \swarrow \quad \searrow \\ 2 \quad 5 \\ = 2 \cdot 2 \cdot 2 \cdot 5 \end{array}$$

$$\begin{array}{c} 9. \quad 66 \\ \swarrow \quad \searrow \\ 2 \quad 33 \\ \swarrow \quad \searrow \\ 3 \quad 11 \\ = 2 \cdot 3 \cdot 11 \end{array}$$

$$16. \quad 9m = 3 \cdot 3 \cdot m \\ 3 = 3$$

$$\text{GCF} = 3$$

$$17. \quad 4x = 2 \cdot 2 \cdot x \\ 2x^2 = 2 \cdot x \cdot x$$

$$\text{GCF} = 2x$$

$$18. \quad -18b^4 = -2 \cdot 3 \cdot 3 \cdot b \cdot b \cdot b \cdot b \\ 27b^2 = 3 \cdot 3 \cdot 3 \cdot b \cdot b$$

$$\text{GCF} = 9b^2$$

$$19. \quad 100r = 2 \cdot 2 \cdot 5 \cdot 5 \cdot r \\ 25r^5 = 5 \cdot 5 \cdot r \cdot r \cdot r \cdot r \cdot r$$

$$\text{GCF} = 25r$$

$$21. \quad 5x(1 - 3x^2)$$

$$23. \quad -7(2v + 3)$$

$$25. \quad 5g(g^4 - 2g^2 - 3)$$

$$33. \quad n^3 - 4n^2 + n - 4 \\ n^2(n-4) + 1(n-4) \\ (n^2+1)(n-4)$$

$$35. \quad 2h^3 + 14h^2 - 7h - 49 \\ 2h^2(h+7) - 7(h+7) \\ (2h^2-7)(h+7)$$

$$37. \quad 10m^3 + 15m^2 - 2m - 3 \\ 5m^2(2m+3) - 1(2m+3) \\ (5m^2-1)(2m+3)$$

$$49. \quad (x+1)(x+5) \\ 50. \quad (x+4)(x+2) \\ 51. \quad (x+5)(x+3)$$

$$52. \quad (x-6)(x-2)$$

$$70. \quad (2x+1)(x+5)$$

$$53. \quad (x+5)(x+5)$$

$$71. \quad (3x+7)(x+1)$$

$$54. \quad (x-11)(x-2)$$

$$72. \quad (2x-1)(x-1)$$

$$73. \quad (3x+2)(x+2)$$

$$97. \quad (10x-9)(10x+9)$$

$$100. \quad (-12+x^3)(-12-x^3)$$

98. Not a Diff. of Squares

101. Not a Diff. of Squares

99. Not a Diff. of Squares

$$102. \quad (10p-5q)(10p+5q)$$