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Glencoe Algebra 1: Positive, Negative and Zero Exponents

1. Simplify: $9^{-1} \cdot (6x)^2$ 2. Evaluate: $(-\frac{7}{6})^2 \cdot 6^2$

3. Evaluate: $8^{-1/2} \cdot 8^{3/2}$ 4. Simplify: $5^{-1} \cdot (2)^4$

5. Evaluate: $4^{-1} \cdot 4^2 \cdot 4^3$ 6. Evaluate: $(-\frac{6}{4})^2 \cdot 4^3$

7. Simplify: $7^{-1} \cdot (2x)^4$ 8. Evaluate: $(-\frac{6}{4})^2 \cdot 4^3$

9. Evaluate: $4^{-3/2} \cdot 4^{7/2}$ 10. Simplify: $2^{-2} \cdot (9)^4$

Circle #	Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score		0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

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Simplify.

13. $\frac{9a^3b^2 - 18a^2b^3}{3a^2b}$ 14. $\frac{5xy^2 - 6y^3 + 3x^2y^3}{xy}$

15. $(28c^3d - 42cd^2 + 56cd^3) \div (14cd)$ 16. $(a^3b^2 - a^2b + 2a)(-ab)^{-1}$

17. $(x^3 - 4x^2) \div (x - 4)$ 18. $(x^3 - 27) \div (x - 3)$

19. $(b^3 + 8b^2 - 20b) \div (b - 2)$ 20. $(g^2 + 8g + 15)(g + 3)^{-1}$

21. $\frac{y^3 + 3y^2 - 5y - 4}{y + 4}$ 22. $\frac{m^3 + 3m^2 - 7m - 21}{m + 3}$

23. $(t^5 - 3t^2 - 20)(t - 2)^{-1}$ 24. $(y^5 + 32)(y + 2)^{-1}$

25. $(2c^3 - 3c^2 + 3c - 4) \div (c - 2)$ 26. $(2b^3 + b^2 - 2b + 3)(b + 1)^{-1}$

27. $\frac{x^5 - 7x^3 + x + 1}{x + 3}$ 28. $\frac{3c^5 + 5c^4 + c + 5}{c + 2}$

29. $\frac{4x^3 + 5x^2 - 3x + 1}{4x + 1}$ 30. $\frac{x^3 - 3x^2 + x - 3}{x^2 + 1}$

31. $(6t^3 + 5t^2 + 9) \div (2t + 3)$ 32. $\frac{x^4 + x^2 - 3x + 5}{x^2 + 2}$

Algebra Worksheet - Section 10.5 Factoring Polynomials of the form $x^2 + bx + c$ Name _____ Block _____

Factor

1. $x^2 + 3x + 2$ 2. $x^2 - x - 2$

3. $x^2 + x - 6$ 4. $x^2 + x - 12$

5. $x^2 - 2x - 35$ 6. $x^2 + 8x + 16$

7. $x^2 + 7x - 8$ 8. $x^2 - y^2 - 6$

9. $x^2 - 4x - 45$ 10. $x^2 - 8x + 15$

11. $x^2 + 12x + 27$ 12. $x^2 + 9x + 20$

13. $x^2 + 3x - 40$ 14. $x^2 - 15x + 36$

15. $x^2 + 11x + 18$ 16. $x^2 + 21x + 100$

Solve each equation by factoring

17. $x^2 + 5x + 6 = 0$ 18. $x^2 - 8x - 20 = 0$

19. $x^2 - y^2 - 72 = 0$ 20. $x^2 - 12x - 11$

$$\begin{array}{r}
 2x^2 + x + 18 \\
 \hline
 x + 2 \overline{) 2x^3 - 3x^2 + 4x + 5} \\
 \underline{-(2x^3 + 4x^2)} \\
 -7x^2 + 4x \\
 \underline{-(-7x^2 - 14x)} \\
 18x + 5 \\
 \underline{-(18x + 36)} \\
 -31
 \end{array}$$

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