ALGEBRA SPIRAL REVIEW

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Find the x and y intercepts of the lines3x+5y=30 3x+4y=9 Find the slope. (6,8) (4,3) (3,7) (2,0) (5,6) (7,6) Solve. 6,12,18,30 What's the pattern? What would the 7th term be? 4,8,12,16 Find the 7th term	Label the graph so so so so so so so so so s
Solve. The school that Lisa goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 4 senior citizen tickets and 5 student tickets for a total of \$102. The school took in \$126 on the second day by selling 7 senior citizen tickets and 5 student tickets. What is the price each of one senior citizen ticket and one student ticket? Senior citizen Student Write the equation in point slope form. (9, -6) m=12 (4, 2) m=2	Is the relation a function? $ \begin{array}{cccccccccccccccccccccccccccccccccc$
Write an equation of a line that is parallel. y=3x-2; (4,8) y=-4x+5; (5,8) Write an equation of a line that is perpendicular. y=1/2x+23; (6,7) y=-5/2+6; (5,-7) Through: (2,3) parallel to:y=5x-12	Time Worked (h) Amount Earned (\$) 2 15 4 30 6 45 8 60 Make a function table for the equation. $f(n)=2x-5$ Solve by using substitution. $-3x-3y=3$ $y=-5x-17$
Find the cube or square roots. 1. $\sqrt{49}$ 2. 3. $\sqrt{81}$ 4. 5. $\sqrt{25}$ 6. 7. $\sqrt{64}$ 8. 9. $\sqrt{169}$ 10. 11. $\sqrt{36}$ 12. 13. $\sqrt{100}$ 14. 15. $\sqrt[3]{216}$ 16. 17. $\sqrt[4]{1000}$ 18.	Solve. $(4v^{2} - 3v^{3} - 1) + (5v^{2} - 2v^{3} - 2)$ $(3 - 6m^{2} + 6m^{3}) + (8 - 4m^{4} + 7m^{2})$ $(a^{3} + 4a - 8) - (8a^{3} - 4 - 8a)$ $(4 - 2n^{3} + 4n^{2}) - (3n^{4} - 4 + n^{3})$ $(2x + 1)(8x - 3)$ $(2x + 1)(8x - 3)$ $(7a + 7b)(7a^{2} - 8ab + 6b^{2})$ $(3x + 2y)(x^{2} + 6xy - y^{2})$ $(8n - 5)^{2}$ $(5 + 6x)^{2}$
10. \$\frac{1}{14.} 16. \$\frac{1}{343} 18. \$\frac{1}{343} 18. \$\frac{1}{343}	$\frac{v^{2}-2v^{3}-2)}{8-4m^{4}+7m^{2}}$ $\frac{-4-8a)}{(3n^{4}-4+n^{3})}$ $\frac{b+6b^{2}}{-y^{2}}$

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Write an equation in slope-intercept form. (7, 8), (3, 6) Write in standard form. 9.4502×10 ⁻⁶ 7.75 × 10 ⁻¹ 1.71 × 10 ⁷ 0.9 × 10 ⁻³ (5 × 10 ⁻⁵)(3.5 × 10 ⁻⁵) 7 × 10 ⁴ 9 × 10 ⁻⁴	Solve by graphing. y=x-2 y=-3x+5 10 8 6 4 2 2 2 4 6 8 10 -4 2 2 4 6 8 10 Solve by using elimination. 2x+7y=-10 4x-12y=14
Solve. (q-7) (q+3) (y-2) (5y-8) (y+3) (9y+2) Solve (14p ⁴ +11p ² -9p ⁵)-(14+5p ⁵ -11p ²) Write a linear function of the line.	Solve. Castel and Gabriella are selling pies for a school fundraiser. Customers can buy apple pies and lemon meringue pies. Castel sold 6 apple pies and 4 lemon meringue pies for a total of \$80. Gabriella sold 6 apple pies and 5 lemon meringue pies for a total of \$94. What is the cost each of one apple pie and one lemon meringue pie? Apple lemon Solve. (2x³z²²² x²²²² x²²²³ x³y⁴z² x²²x²²²² x²²²² x²²²²² x²²²² x²²²² x²²²² x²²²² x²²²² x²²²² x²²²² x²²²²² x²²²² x²²²² x²²²²² x²²²² x²²²²² x²²²²² x²²²²² x²²²² x²²²² x²²²² x²²²² x²²²² x²²²²² x²²²² x²²²² x²²²² x²²²² x²²²² x²²²² x²²²²² x²²²²² x²²²²² x²²²² x²²²²² x²²²² x²²²²² x²²²²²²
Solve Pedro is trying to incorporate more exercise into his busy schedule. He has several short exercise routines he can complete at home. Last week, he worked out for a total of 108 minutes by doing 3 arm routines and 3 abdominal routines. This week, he has completed 3 arm routines and 2 abdominal routines and spent a total of 92 minutes exercising. How long does each routine last? Arm Abdominal Write an equation of a line in slope-intercept form. (-1, 7), (4, -3)	Graph the system of inequalities. y<4x+3 y>5x+-2 10
Simplify the radicals. 4 4 $\frac{4}{\sqrt{10}}$ $\frac{6}{\sqrt{2}}$ $\frac{3}{\sqrt{5}}$ $\frac{9}{\sqrt{48}}$ $\frac{4}{\sqrt{8}}$ $\frac{5}{\sqrt{3}}$ $\frac{-4}{\sqrt{8}}$ $\frac{5}{\sqrt{3}}$ $\frac{5}{\sqrt{3}}$ $\frac{\sqrt{5}}{\sqrt{8}}$ $\frac{\sqrt{5}}{\sqrt{8}}$ $\frac{\sqrt{5}}{\sqrt{10}}$	Simplify the radicals. $\sqrt{75}$ $\sqrt{16}$ $\sqrt{36}$ $\sqrt{36}$ $\sqrt{30}$ $\sqrt{30}$ $\sqrt{3}$ $\sqrt{3}$ $\sqrt{18}$ $\sqrt{32}$ $\sqrt{12}$ $\sqrt{32}$ $\sqrt{12}$

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