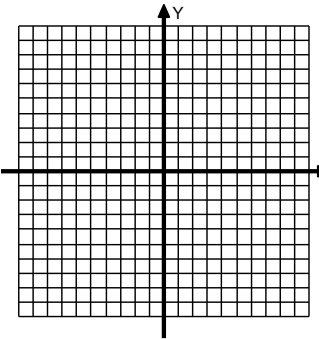

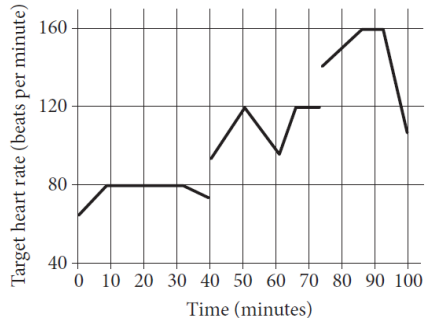


Name:

Block:

Algebra Daily 5 Week 8

Monday		Tuesday	
<p>What algebraic property is being used to get from step 1 to step 2 below?</p> <p>Step 1: $x + 8 = 2x - 16$ Step 2: $-x \quad -x$</p>		<p>Factor the expression.</p> $4x^3 + 12x^2 + 16x + 48$ $4(x^3 + 3x^2 + 4x + 12)$ $x^2(x+3) + 4(x+3)$ $4(x+3)(x^2+4)$	
	<p>D: R: Max: Min: X-Int: Y-Int: $y > 0$: $y < 0$: Int of Inc: Int of Dec: Constant Int: End: As $x \rightarrow -\infty$, $f(x) \rightarrow$ _____ As $x \rightarrow \infty$, $f(x) \rightarrow$ _____</p>	<p>Solve for x.</p> $3(x - 2) + 4x = 2x$ $3x - 6 + 4x = 2x$ $7x - 6 = 2x$ $-7x - 6 = -7x$ $-6 = -5x$ $x = 6/5$	
<p>Factor the expression.</p> $12x^3 + 8x^2 + 4x$		<p>A group of 4 friends went to the Wheeler football game with \$50. Tickets cost \$5 each, hotdogs cost \$4, and drinks cost \$3.</p> <p>Write an inequality to represent how many hotdogs and drinks the group could buy. If they bought 4 hot dogs, could everyone have a drink?</p>	$20 + 4x + 3y \leq 50$ $4x + 3y \leq 30 - 4x$ $3y \leq 30 - 4x$ $y \leq 10 - \frac{4}{3}x$
<p>Simplify the expression.</p> $3\sqrt{5x^3y} \cdot -4\sqrt{15xy^4} + 2\sqrt{3y}$		<p>Graph the inequality above.</p> $y \leq 10 - \frac{4}{3}x$ <p>Give 1 possibility that spends all their money. (6h, 2d) (3h, 6d)</p>	
<p>Graph the system of inequalities below.</p> $y \geq \frac{2}{3}x - 3$ $y < -x + 4$		<p>Write the explicit/closed rule for the sequence.</p> <p>-3, 1, 5, 9, ...</p> <p>Find the domain, range, and a_{120}.</p> $a_n = -3 + 4(n-1) = 4n - 7$ $a_n = a_1 + d(n-1)$ <p style="text-align: center;">-3 = +4</p>	<p>hot dog</p> <p>D: {1, 2, 3, 4, ...}</p> <p>R: {-3, 1, 5, 9, ...}</p>

Wednesday		Thursday	
Graph the following inequality: $3x - 2y \geq 6$			Domain: Range: Int of Inc: Int of Dec: End Behavior: As $x \rightarrow _____$, $f(x) \rightarrow _____$
Find the average rate of change for $-2 < x < 3$ for $f(x) = 2x - 7$		A crane operator unloaded the following cargo: - 5 pallets of lumber. Each pallet weighed 7.3 tons. - 9 pallets of concrete. Each pallet weighed 4.8 tons. Which load of cargo was heavier, the lumber or the concrete? How many pounds heavier?	
A triangle has 3 sides with lengths of $(2x + 1)$, $(3x + 5)$, and $(4x - 1)$. Sketch and write a simplified algebraic expression for the <u>perimeter</u> of the triangle.		Factor the expression. $-x + 6x^2 + 2x^3 - 3$	
Given the sequence $7, 2, -3, -8, \dots$ Write an explicit formula for the sequence. Use the formula to find a		Solve the equation below for k. $W = \frac{4x - kx^2}{A}$	
<p style="text-align: center;">SAT Question:</p> <p>John runs at different speeds as part of his training program. The graph shows his target heart rate at different times during his workout. On which interval is the target heart rate strictly increasing then strictly decreasing?</p> <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p>A. Between 0 and 30 minutes</p> <p>B. Between 40 and 60 minutes</p> <p>C. Between 50 and 65 minutes</p> <p>D. Between 70 and 90 minutes</p> </div> <div>  </div> </div>		<p style="text-align: center;">SAT Question:</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">1 decagram = 10 grams 1,000 milligrams = 1 gram</p> </div> <p>A hospital stores one type of medicine in 2-decagram containers. Based on the information given in the box above, how many 1-milligram doses are there in one 2-decagram container?</p> <p>A. 0.002 B. 200 C. 2,000 D. 20,000</p>	