

Name _____

1 Factor completely $6x^2 - 4x + 2$.

2 Find the area of a rectangle with a length of $(x^2 - 2)$ and a width of $(2x^2 - x + 2)$.

3 Which function below will result in a downward vertical shift of the graph of $y = x^2$

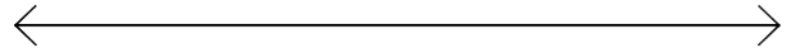
- (1) $y = \frac{1}{2}x^2$ (2) $y = 2x^2$ (3) $y = x^2 + 2$ (4) $y = x^2 - 1$

4 Which set of data of temperatures has the largest dispersion as measured by its interquartile range?

- (1) 15, 17, 19, 21, 21, 22, 28 (3) 10, 19, 22, 23, 23, 29, 44
 (2) 21, 23, 36, 37, 44, 48, 50 (4) 42, 47, 49, 50, 52, 59, 60

5 Transform the equation $x - 3y = -15$ to express it in slope-intercept form.

6 Create a box plot for the ages of the people listed below.
 40, 25, 20, 15, 40, 40, 45, 60, 7, 10, 52, 34, 38



7 What are the zeros of the function $f(x) = x^2 - 2x - 15$

- (1) $\{3, 5\}$ (3) $\{-5, 3\}$
 (2) $\{-3, 5\}$ (4) $\{-5, -3\}$

8 What is the difference when $2x^2 + x - 5$ is subtracted from $6x^3 - x^2 + 4x + 8$?

9 If $A = 3x^2 + 5x - 6$ and $B = -2x^2 - 6x + 7$, then $A - B$ equals

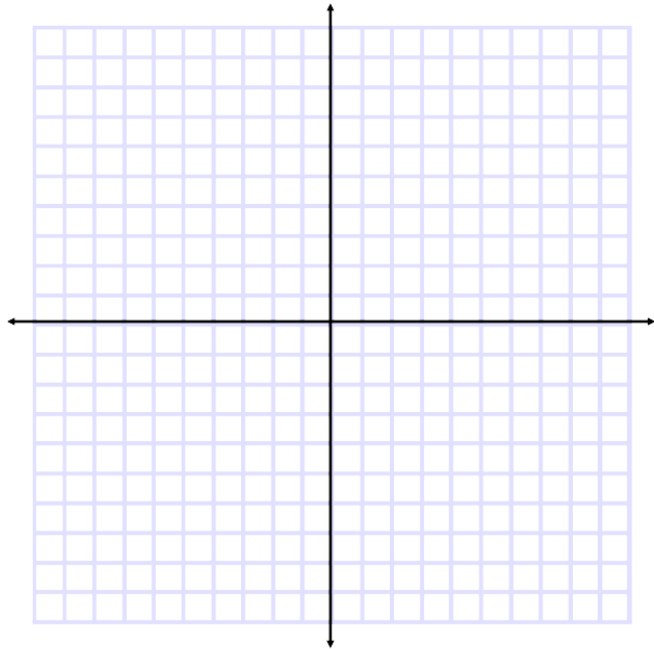
(1) $-5x^2 - 11x + 13$ (3) $-5x^2 - x + 1$
 (2) $5x^2 + 11x - 13$ (4) $5x^2 - x + 1$

monday

tuesday

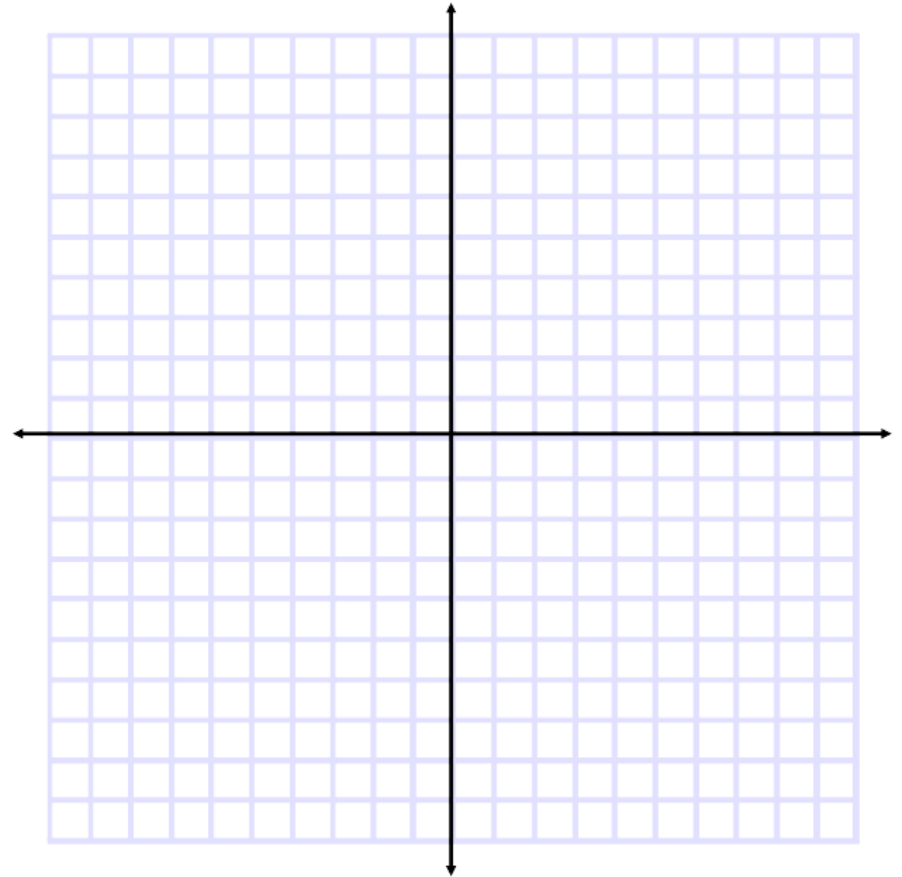
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10 Graph $2x + y < 7$ and state one point in the solution set.



11 Simplify $(x^2 + 4)(3x^2 + x - 4)$

12 Sketch the graph of all the solutions to the equation $y = \frac{1}{4}(2)^x$ where $0 \leq x \leq 5$.



Find the average rate of change between $f(2)$ and $f(5)$

wednesday

thursday