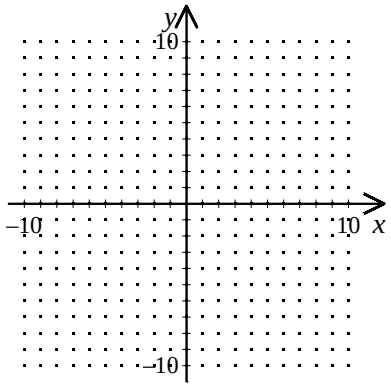
NAME:_____

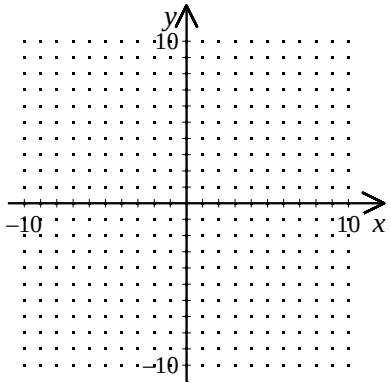
P.I. A.G.8: Find the roots of a parabolic function graphically (Note: Only quadratic equations with integral solutions)

1. Solve $x^2 + 6x + 8$ by graphing.



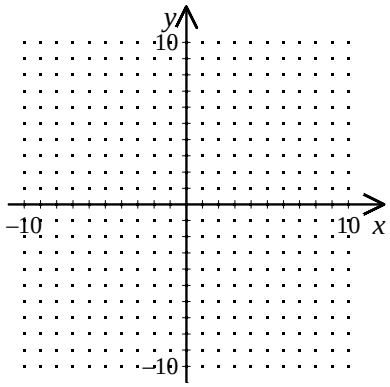
[1] _____

2. Solve $x^2 + x - 6$ by graphing.



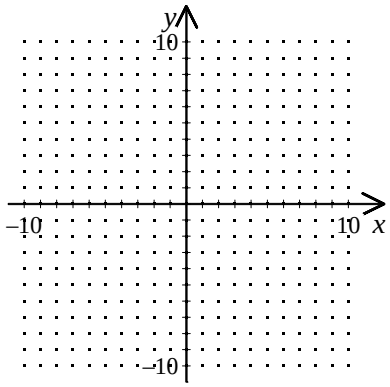
[2] _____

3. Graph the following equation, and determine the roots, if they exist. $y = 5x^2 - 20x + 15$



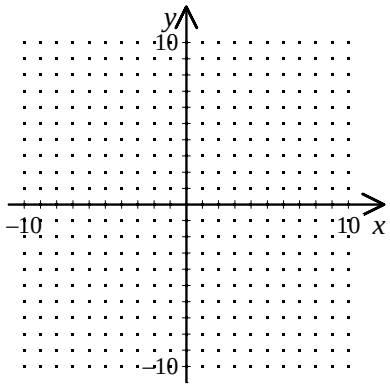
[3] _____

4. Graph the following equation, and determine the roots, if they exist. $y = 3x^2 + 3x - 6$



[4] _____

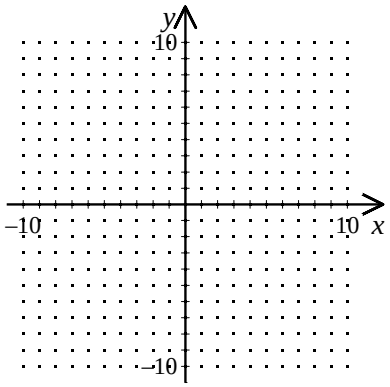
5. Graph the following equation, and determine the roots, if they exist. $y = 5x^2 - 25x + 30$



[5] _____

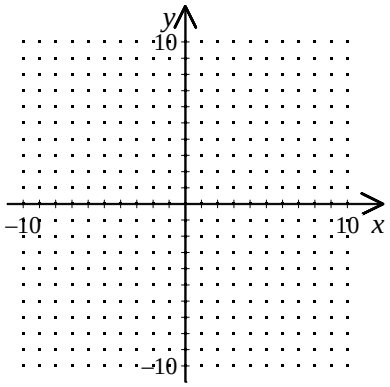
NAME:_____

6. Graph the following equation, and determine the roots, if they exist. $y = 5x^2 - 30x + 40$



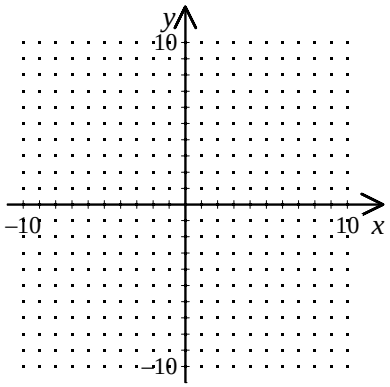
[6] _____

7. Graph the following equation, and determine the roots, if they exist. $y = 3x^2 - 9x + 6$



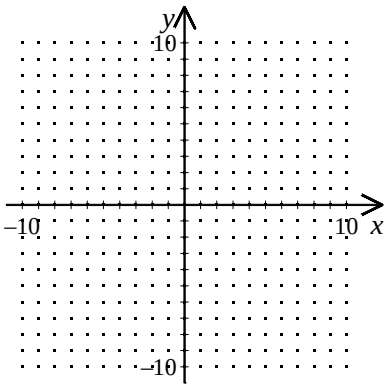
[7] _____

8. Graph the following equation, and determine the roots, if they exist. $y = 3x^2 - 18x + 24$



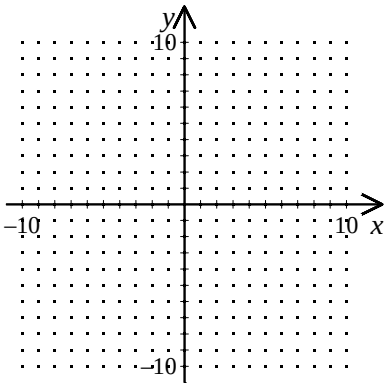
[8] _____

9. Solve $2x^2 - 14x + 20$ by graphing.



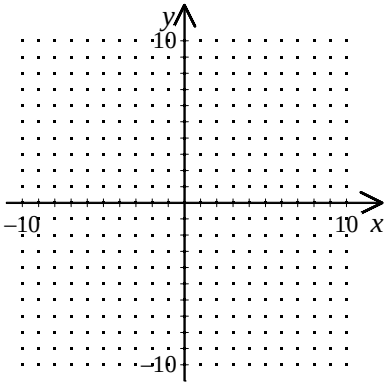
[9] _____

10. Solve $2x^2 - 22x + 60$ by graphing.

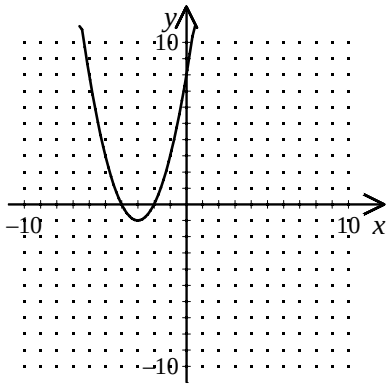


[10] _____

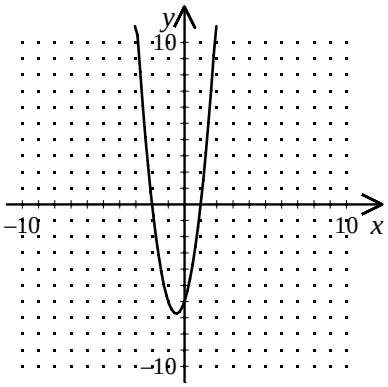
11. Solve $2x^2 + 18x + 36$ by graphing.



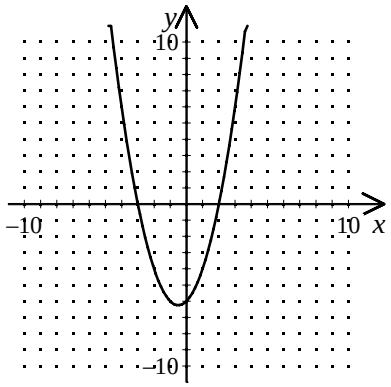
[11] _____



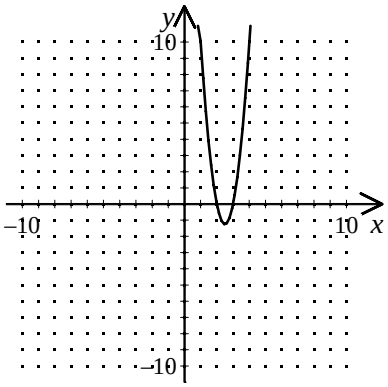
[1] $x = -4$ and $x = -2$



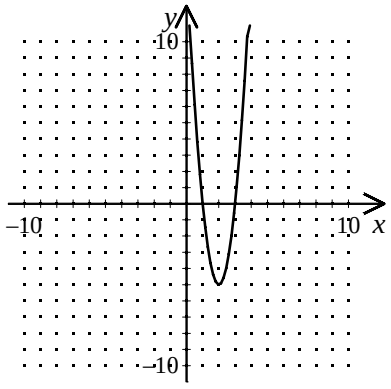
[4] $x = -2, 1$



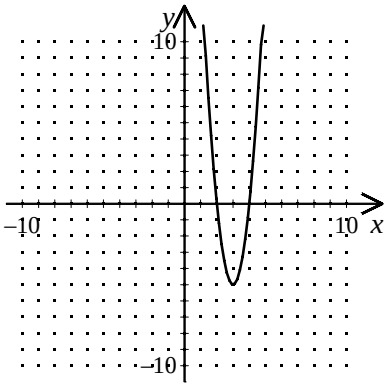
[2] $x = -3$ and $x = 2$



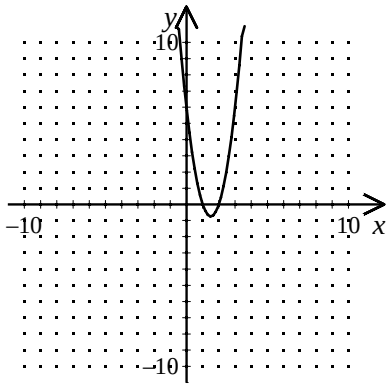
[5] $x = 2, 3$



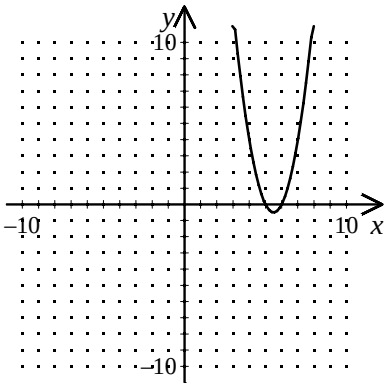
[3] $x = 1, 3$



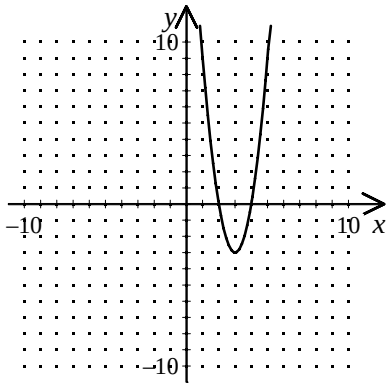
[6] $x = 2, 4$



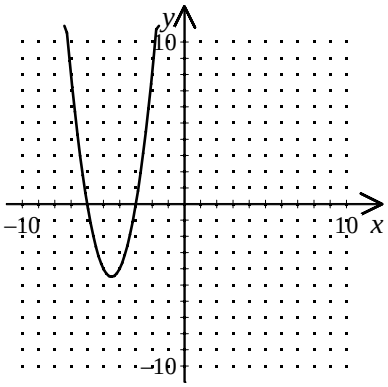
[7] $x = 1, 2$



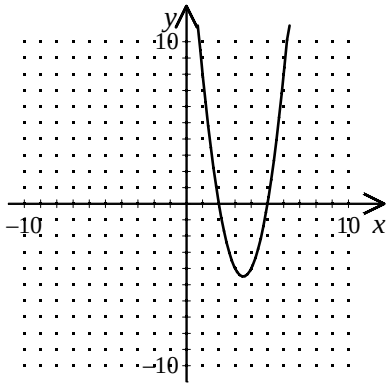
[10] $x = 5$ and $x = 6$



[8] $x = 4, 2$



[11] $x = -3$ and $x = -6$



[9] $x = 5$ and $x = 2$