READY, SET, GO! Name Period Date

READY

Topic: Exploring the density of the number line.

Find <u>three</u> numbers that are between the two given numbers.

1. $5\frac{3}{4}$ *and* $6\frac{1}{3}$
2. $-2\frac{1}{4}$ *and* $-1\frac{1}{2}$
3. $\frac{1}{4}$ *and* $\frac{5}{8}$
4. $\sqrt{3}$ *and* $\sqrt{5}$
5. 4 *and* $\sqrt{23}$
6. $-9\frac{3}{4}$ *and* -8.5
7. $\sqrt{\frac{1}{4}}$ *and* $\sqrt{\frac{4}{9}}$
8. $\sqrt{13}$ *and* $\sqrt{14}$

SET

Topic: Factoring Quadratics

The area of a rectangle is given in the form of a trinomial expression. Find the equivalent expression that shows the lengths of the two sides of the rectangle.

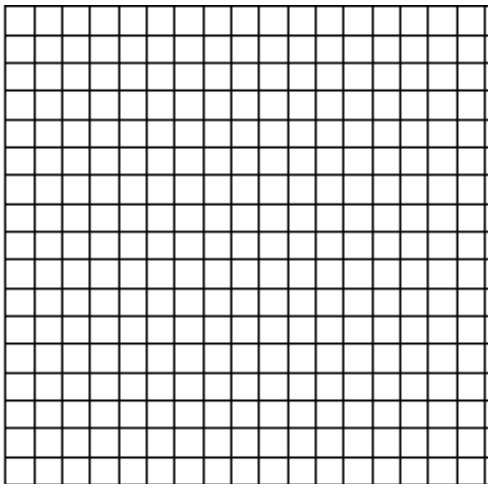
9. $x^2 + 9x + 8$
10. $x^2 - 6x + 8$
11. $x^2 - 2x - 8$
12. $x^2 + 7x - 8$
13. $x^2 - 11x + 24$
14. $x^2 - 14x + 24$
15. $x^2 - 25x + 24$
16. $x^2 - 10x + 24$
17. $x^2 - 2x - 24$
18. $x^2 - 5x - 24$
19. $x^2 + 5x - 24$
20. $x^2 - 10x + 25$
21. $x^2 - 25$
22. $x^2 - 2x - 15$
23. $x^2 + 10x - 75$
24. $x^2 - 20x + 51$
25. $x^2 + 14x - 32$
26. $x^2 - 1$
27. $x^2 - 2x + 1$
28. $x^2 + 12x - 45$

GO

Topic: Graphing Parabolas

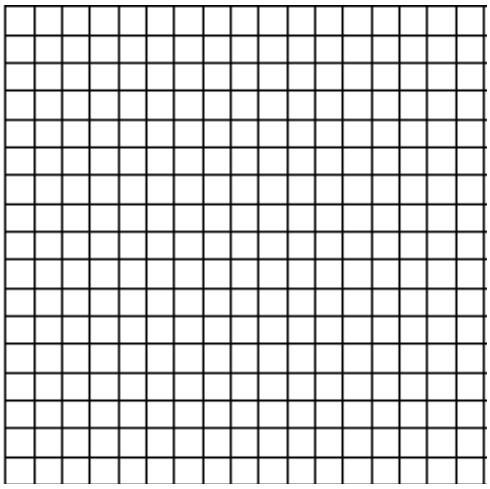
Graph each parabola. Include the vertex and at least 3 accurate points on each side of the axis of symmetry. Then describe the transformation in words.

29. $f(x) = x^2$



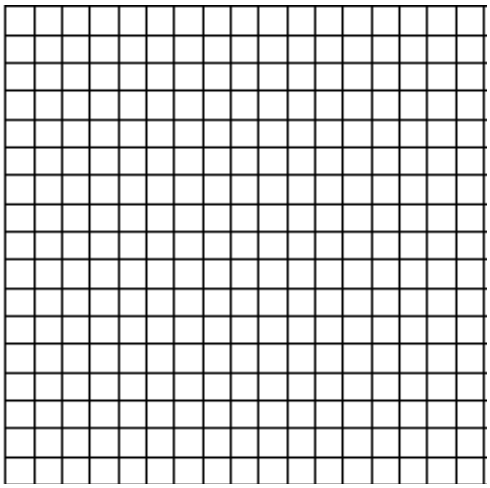
Description:

30. $g(x) = x^2 - 3$



Description:

31. $h(x) = (x - 2)^2$



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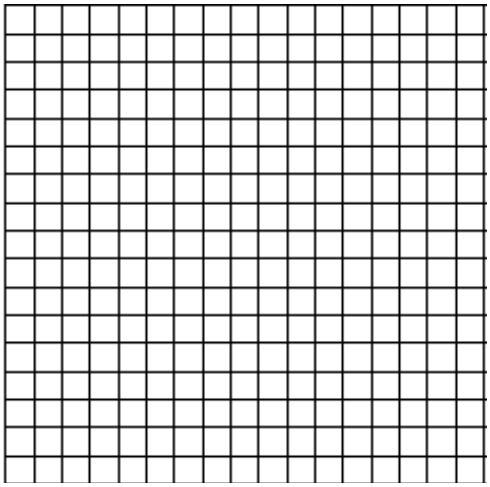
32. $b(x) = -(x + 1)^2 + 4$



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