

QUADRATIC FUNCTIONS – FACTORING PRACTICE

- *Open up Chrome*
- *Enter: www.onlinemathlearning.com*
- *Go to each of the five site below by adding the topic at the end of the site name*
- *Enter your responses according to the instructions*
- *Click on “enter” to see what is correct or wrong*
- *Fix the ones that are wrong*

- ***CANNOT CHECK DIFFERENCE OF SQUARES – FIRST ONE BELOW***
- ***#3 BELOW – MUST ENTER ALL BEFORE CHECKING ANSWERS – DYNAMICALLY GENERATED***

Quadratic Functions Wkst LINKS

1. Difference of Squares

<http://www.onlinemathlearning.com/factoring-binomials.html>

2. Perfect Trinomial Squares

<http://www.onlinemathlearning.com/trinomial-square.html>

3. Factoring when “a”=1 or using GCF

http://interactive.onlinemathlearning.com/quad_factor.php?action=generate&numProblems=10

4. Combination of Problems Set 1

<http://www.onlinemathlearning.com/trinomial-factor.html>

5. Combination of Problems Set 2

<http://www.onlinemathlearning.com/factor-trinomial.html>

Factor the following problems online. Write your response on the paper. When you have finished a page submit your results and mark the ones that you found to be incorrect. Fix each one, and resubmit. When you have 100% accuracy, move to the next page and do the same. To move to the next page, close the Difference of Square page and click on the next set of questions in the list. If you do not finish in class, take this home and finish it for the next class.

Difference of Squares

$$x^2 - 25 = \sqrt{\quad}$$

$$x^2 - 9 = \sqrt{\quad}$$

$$x^2 - 81 = \sqrt{\quad}$$

$$x^2 - 100 = \sqrt{\quad}$$

$$x^2 - 49 = \sqrt{\quad}$$

$$9x^2 - 16 = \sqrt{\quad}$$

$$4x^2 - 9 = \sqrt{\quad}$$

$$x^2 - 36 = \sqrt{\quad}$$

$$49x^2 - 64 = \sqrt{\quad}$$

$$x^2 - 1 = \sqrt{\quad}$$

$$25x^2 - 1 = \sqrt{\quad}$$

$$x^2 - 121 = \sqrt{\quad}$$

$$25x^2 - 9 = \sqrt{\quad}$$

$$4x^2 - 9 = \sqrt{\quad}$$

$$x^2 - 4 = \sqrt{\quad}$$

Perfect Trinomial Squares

$$x^2 + 18x + 81 = \sqrt{\quad}$$

$$x^2 - 20x + 100 = \sqrt{\quad}$$

$$x^2 - 14x + 49 = \sqrt{\quad}$$

$$x^2 + 22x + 121 = \sqrt{\quad}$$

$$x^2 + 18x + 81 = \sqrt{\quad}$$

$$25x^2 - 120x + 144 = \sqrt{\quad}$$

$$49x^2 + 84x + 36 = \sqrt{\quad}$$

$$x^2 - 16x + 64 = \sqrt{\quad}$$

$$1x^2 - 180x + 100 = \sqrt{\quad}$$

$$4x^2 - 12x + 9 = \sqrt{\quad}$$

$$x^2 - 6x + 9 = \sqrt{\quad}$$

$$x^2 + 10x + 25 = \sqrt{\quad}$$

$$9x^2 - 12x + 4 = \sqrt{\quad}$$

$$49x^2 + 14x + 1 = \sqrt{\quad}$$

$$36x^2 + 132x + 121 = \sqrt{\quad}$$

Factoring when "a" = 1 or using Greatest Common Factor

Factor the following polynomials. You may use the TAB key to move to the next question. When you are done, click Submit.

Write each problem + factor answer out. (Every screen will produce new problem)
Enter each answer in the format $(x+1)(x+2)$, $x(x+1)$, or $(x+1)^2$, with no spaces.

1. =

2. =

3. =

4. =

5. =

6. =

7. =

8. =

9. =

10. =

Combination of Problems Set 1

$$x^2 - 24x + 144 = \sqrt{\quad}$$

$$x^2 - 20x + 100 = \sqrt{\quad}$$

$$64x^2 + 16x + 1 = \sqrt{\quad}$$

$$x^2 - 49 = \sqrt{\quad}$$

$$x^2 + 6x - 55 = \sqrt{\quad}$$

$$9x^2 - 49 = \sqrt{\quad}$$

$$81x^2 - 1 = \sqrt{\quad}$$

$$9x^2 + 24x + 16 = \sqrt{\quad}$$

$$-64 = \sqrt{\quad}$$

$$x^2 - 8x - 84 = \sqrt{\quad}$$

$$49x^2 - 168x + 144 = \sqrt{\quad}$$

$$25x^2 - 60x + 36 = \sqrt{\quad}$$

$$x^2 - x - 110 = \sqrt{\quad}$$

$$x^2 - 16 = \sqrt{\quad}$$

$$25x^2 - 36 = \sqrt{\quad}$$

Combination of Problems Set 2

$$x^2 - 14x + 49 = \sqrt{\quad}$$

$$49x^2 - 144 = \sqrt{\quad}$$

$$x^2 + 7x + 10 = \sqrt{\quad}$$

$$x^2 - 18x + 81 = \sqrt{\quad}$$

$$25x^2 - 120x + 144 = \sqrt{\quad}$$

$$49x^2 - 1 = \sqrt{\quad}$$

$$25x^2 - 144 = \sqrt{\quad}$$

$$x^2 + 2x + 1 = \sqrt{\quad}$$

$$x^2 - 14x + 49 = \sqrt{\quad}$$

$$x^2 - 81 = \sqrt{\quad}$$

$$x^2 - 23x + 132 = \sqrt{\quad}$$

$$x^2 - 144 = \sqrt{\quad}$$

$$81x^2 - 100 = \sqrt{\quad}$$

$$x^2 - 8x + 7 = \sqrt{\quad}$$

$$36x^2 + 60x + 25 = \sqrt{\quad}$$