

Name: _____

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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 1

Factor the following:

1. $b^2 - 64$

2. $(b - 1)^2 - 196$

3. $25 - p^2$

4. $a^2 - 144$

5. $9a^2 - 121$

6. $x^2 - 81$

7. $(a - 2a)^2 - 16$

8. $324a^2 - 289$

9. $a^2 - 4b^2$

10. $81 - q^2$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 1 -
ANSWERS

Factor the following:

1. $(b + 8)(b - 8)$

2. $(b + 13)(b - 15)$

3. $(5 + p)(5 - p)$

4. $(a + 12)(a - 12)$

5. $(3a + 11)(3a - 11)$

6. $(x + 9)(x - 9)$

7. $(a - 2a + 4)(a - 2a - 4)$

8. $(18a + 17)(18a - 17)$

9. $(a + 2b)(a - 2b)$

10. $(9 + q)(9 - q)$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 2

Factor the following:

1. $p^2 - 169$

2. $(a-3b)^2 - 225$

3. $81 - a^2$

4. $4a^2 - 100$

5. $25b^2 - 256$

6. $x^2 - 64$

7. $(p-q)^2 - 9$

8. $a^2 - 4$

9. $m^2 - 4n^2$

10. $a^2 - b^2$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 2-
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Factor the following:

1. $(p + 13)(p - 13)$

2. $(a - 3b - 15)(a - 3b + 15)$

3. $(9 + a)(9 - a)$

4. $(2a + 10)(2a - 10)$

5. $(5b + 16)(5b - 16)$

6. $(x + 8)(x - 8)$

7. $(p - q + 3)(p - q - 3)$

8. $(a + 2)(a - 2)$

9. $(m + 2n)(m - 2n)$

10. $(a + b)(a - b)$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 3

Factor the following:

1. $(a + 4b) - 25c^2$

2. $(a - 3b)^2 - 9$

3. $100 - p^2$

4. $a^2 - 36$

5. $25a^2 - 16$

6. $9x^2 - 49$

7. $(p - q)^2 - 100$

8. $4a^2 - 36$

9. $25m^2 - 4n^2$

10. $361a^2 - b^2$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 3-
ANSWERS

Factor the following:

1. $(a + 4b + 5c)(a + 4b - 5c)$ 2. $(a - 3b - 3)(a - 3b + 3)$

3. $(10 + p)(10 - p)$ 4. $(a + 6)(a - 6)$

5. $(5a + 4)(5a - 4)$ 6. $(3x + 7)(3x - 7)$

7. $(p - q + 10)(p - q - 10)$ 8. $(2a + 6)(2a - 6)$

9. $(5m + 2n)(5m - 2n)$ 10. $(19a + b)(19a - b)$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 4

Factor the following:

1. $(a + 2b)^2 - 4c^2$

2. $(a - 3b)^2 - 9$

3. $625 - b^2$

4. $a^2 - 121$

5. $25a^2 - 16$

6. $81x^2 - 36$

7. $(a - b)^2 - 100$

8. $4a^2 - 36$

9. $25m^2 - 4n^2$

10. $361a^2 - b^2$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 4-
ANSWERS

Factor the following:

1. $(a + 2b + 2c)(a + 2b - 2c)$ 2. $(a - 3b - 3)(a - 3b + 3)$

3. $(25 + b)(25 - b)$ 4. $(a + 11)(a - 11)$

5. $(5a + 4)(5a - 4)$ 6. $(9x + 6)(9x - 6)$

7. $(a - b + 10)(a - b - 10)$ 8. $(2a + 6)(2a - 6)$

9. $(5m + 2n)(5m - 2n)$ 10. $(19a + b)(19a - b)$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 5

Factor the following:

1. $(3a - 2b) - 16c^2$

2. $(3a - 4b)^2 - 16$

3. $169a^2 - 25b^2$

4. $a^2 - 25$

5. $9a^2 - 16$

6. $81a^2 - 36$

7. $(p - q)^2 - 49$

8. $25b^2 - 64c^2$

9. $36m^2 - 4n^2$

10. $25a^2 - b^2$



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Topic : Factoring the Difference of Two Perfect Squares - Worksheet 5-
ANSWERS

Factor the following:

1. $(3a - 2b + 4c)(3a - 2b - 4c)$
2. $(3a - 4b - 4)(3a - 4b + 4)$
3. $(13a + 5b)(13a - 5b)$
4. $(a + 5)(a - 5)$
5. $(3a + 4)(3a - 4)$
6. $(9a + 6)(9a - 6)$
7. $(p - q + 7)(p - q - 7)$
8. $(5b + 8c)(5b - 8c)$
9. $(6m + 2n)(6m - 2n)$
10. $(5a + b)(5a - b)$

