

FACTORIZING DAY 1:
GCF AND D.O.T.S.

DISTANCE OF 4 SQUARES

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1. $a^2 - 9$

2. $a^2 - 64$

3. $y^2 - 169$

4. $25 - c^2$

5. $9r^2 - 16$

6. $4a^2 - 49$

7. $9m^2 - 100k^2$

8. $4w^5 - 1$

9. $121a^{30} - 64$

10. $\frac{1}{9} - x^2$

11. $\frac{w^2}{16} - 1$

12. $\frac{x^2}{4} - \frac{y^2}{100}$

1. $5a - 35$

2. $3y - 8xy$

3. $5p^2r + p^2$

4. $w^2w^3 + 9w^2w^4$

5. $21w^4 - 14w^2 - 35$

6. $x^2y^5 + 2x^4y^4 - 4xy^5$

7. $-6u^4 + 10u^3 - 3u^2 + 2u$

8. $105k^4n^7 - 42k^3n^5 + 21k^4n^5$

11/10/17
 2:00 PM
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 2:00 PM

Why Didn't Klutz Do Any Homework on Saturday?



Either multiply or factor, as directed, and find your answer in the adjacent answer column. Write the letter of that exercise in the box that contains the number of the answer.

Multiply:

- 1 $(a + 5)(a - 5)$
- 2 $(2 + 3a)(2 - 3a)$
- 3 $(7a - 1)(7a + 1)$
- 4 $(a^2 - 6)(a^2 + 6)$
- 5 $(4a + b)(4a - b)$
- 6 $(2a^2 - 5b)(2a^2 + 5b)$
- 7 $16a^2 - b^2$
- 8 $49a^2 - 1$
- 9 $a^2 - 25$
- 10 $4a^4 - 25b^2$
- 11 $4 - 9a^2$
- 12 $4a^4 - 36$
- 13 $a^4 - 36$

Factor:

- 14 $x^2 - y^2$
- 15 $4x^2 - 49y^2$
- 16 $81x^2 - 100y^2$
- 17 $36x^2 - 121y^2$
- 18 $9x^2 - 64y^2$
- 19 $x^4 - 400$
- 20 $(9x + 10y)(9x - 10y)$
- 21 $(x + y)(x - y)$
- 22 $(x^2 + 20)(x^2 - 20)$
- 23 $(6x + 11y)(6x - 11y)$
- 24 $(3x + 7y)(3x - 7y)$
- 25 $(2x + 7y)(2x - 7y)$
- 26 $(3x + 8y)(3x - 8y)$

Homework

Factor:

- 1 $n^2 - 49$
- 2 $n^2 - 1$
- 3 $81 - n^2$
- 4 $4n^2 - 9$
- 5 $49n^2 - 16$
- 6 $144 - 25n^2$
- 7 $(2n + 3)(2n - 3)$
- 8 $(12 + 5n)(12 - 5n)$
- 9 $(n + 1)(n - 1)$
- 10 $(7n + 3)(7n - 3)$
- 11 $(n + 7)(n - 7)$
- 12 $(9 + n)(9 - n)$
- 13 $(7n + 4)(7n - 4)$

Factor:

- 14 $a^6 - b^4$
- 15 $25a^8 - 9b^4$
- 16 $a^2b^2 - 36$
- 17 $16 - a^4b^6$
- 18 $a^2b^4 - c^8$
- 19 $4a^{16} - 225$
- 20 $(4 + a^2b^3)(4 - a^2b^3)$
- 21 $(2a^8 + 15)(2a^8 - 15)$
- 22 $(a^3 + b^2)(a^3 - b^2)$
- 23 $(ab^2 + c^4)(ab^2 - c^4)$
- 24 $(ab + 6)(ab - 6)$
- 25 $(5a^4 + 3b^2)(5a^4 - 3b^2)$
- 26 $(4 + ab^4)(4 - ab^4)$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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HOME WORK

Factoring Special Cases

Factor each completely.

1) $16n^2 - 9$

2) $4m^2 - 25$

3) $16b^2 - 40b + 25$

4) $4x^2 - 4x + 1$

5) $9x^2 - 1$

6) $n^2 - 25$

7) $n^4 - 100$

8) $a^4 - 9$

9) $k^4 - 36$

10) $n^4 - 49$

E.T. GCF and D.O.T.S

1. FACTOR

$$\frac{25}{49}x^2 - 100y^{28} = (\quad)(\quad)$$

2. FACTOR

$$12x^3 + 18x^9 + 24x^{11}$$

3. Solve

$$x - 2x + 3x - 4x + 5x = \frac{9^2}{3^0}$$

E.T. Answer

G.C.F. DOTS.

$$1. \left(\frac{5}{7}x - 10y^{14} \right) \left(\frac{5}{7}x + 10y^{14} \right)$$

$$2. 6x^3 (2 + 3x^6 + 4x^8)$$

$$3. 3x = \frac{81}{1}$$

$$3x = 81$$

$$x = 27$$