

M Factoring

Factoring the Difference of Two Squares

 $a^2 - 36 = (a + 6) (a - 6)$ $3x^2 - 48 = 3 (x^2 - 16) = 3 (x + 4) (x - 4)$

Factor, write prime if prime.

1.
$$x^2 - 1$$

2.
$$x^2 - 9$$

3.
$$x^2 + 4$$

4.
$$x^2 - 25$$

6.
$$4x^2 - 25$$

7.
$$9x^2 - 1$$

8.
$$a^2 - x^2$$

10.
$$x^2 - 16y^2$$

12.
$$-x^2 + 16$$

14.
$$2x^2 - 8$$

15.
$$25 + 4x^2$$

17.
$$12x^9 - 75$$

19.
$$-98 + 2x^2$$

21.
$$9x^4 - 4$$

22.
$$16x^4 - y^2$$

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Lauren Gardner

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