

factoring vs. quadratic formula

It is much more efficient to use factoring when possible, although the quadratic formula will work in all cases. Choose the most appropriate method to solve the following quadratic equations:

1 $x^2 - 9x + 14 = 0$

2 $4x^2 = 18x$

3 $x^2 + 2 = 5x$

4 $2x^2 + x - 6 = 0$

5 $10x^2 = x^2 + 64$

6 $3x^2 + 4x + 2 = 0$

7 $x^2 - x - 42 = 0$

8 $16x^2 = 1$

9 $-x^2 - 3x + 7 = 0$

10 $6x^2 = 21x$

11 $5x^2 - 17x = 12$

12 $5x^2 - 10 = x^2 + 71$

13 $x^2 + 4x = 2$

14 $2x^2 + 10x + 12 = 0$

15 $2x^2 + 2 = 9x$

16 $10x^2 = 10$

17 $x^2 - 4x + 4 = 2x$

18 $x^2 + 8x = 3x$

19 $5x^2 - 15x + 10 = 0$

20 $2x^2 = 3x - 12$