

## Assignment 10

Factor each expression.

1.  $x^2 - 16$

2.  $9x^2 - 25$

3.  $3x^2 - 27$

4.  $2x^2 - 50$

Factor each expression completely and solve all equations.

5.  $3x^2 + 7x + 4$

6.  $5x^3 - 5x$

7.  $x^3 + 2x^2 + 4x + 8$

8.  $x^2 - 5x - 6 = 0$

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9.  $10x^2 + x - 2 = 0$

10.  $25x^2 - 30x + 9$

11.  $x^2 + 12x + 36 = 0$

12.  $x^2 - 6x = 0$

Factor each expression completely and solve all equations.

13.  $x^3 + 4x^2 - 5x - 20$

14.  $x^2 - 49$

15.  $2x^3 + 6x^2 - 20x$

16.  $x^3 - 10x^2 + 21x$

17.  $3x^2 - 10x + 8 = 0$

18.  $x^3 + 2x^2 - 9x - 18$

19.  $2x^3 + 5x^2 - 12x$

20.  $3x^2 - 15x = 0$

21.  $2x^2 - 18$

22.  $x^2 + 7x = 0$

23.  $2x^2 - x - 15 = 0$

24.  $5x^2 - 50x = 0$