

Factoring: A General Strategy

1. Factor each polynomial completely:

$$50x^3 - 20x^2 + 2x$$

2. Factor each polynomial completely:

$$3x^5 - 81x^2y^3$$

3. Factor each polynomial completely:

$$9x^4 - 25$$

4. Factor each polynomial completely:

$$12x^4 - 19x^2 + 5$$

5. Factor each polynomial completely:

$$x^6 - 9x^3 + 20$$

6. Factor each polynomial completely:

$$m^2n^2 - 7mn + 12$$

6. Factor each polynomial completely:

$$(7x-1)^2 - 10(7x-1) + 16$$

7. Factor each polynomial completely:

$$w^6 - 29w^3 + 54$$

8. Factor each polynomial completely:

$$-3y^3 - 9y^2 + 12y + 36$$

9. Factor each polynomial completely:

$$75x^5 + 363x^3 - 60x$$