

P. Math 10  
Identifying Types of Factoring

Name - KEY

Label each question with the FIRST type of factoring you would use: monomial, simple trinomial, decomposition, difference of squares. DO NOT FACTOR!

1.  $6 + 12x^2$  mon

2.  $(x - y)^2 - z^2$  dif sq

3.  $x^2 + 17x + 72$  simp tri

4.  $49b^2 - 7b^3$  mon

5.  $5a^2 - 7a - 6$  decomp

6.  $2m^2 - 11m + 12$  decomp

7.  $x^2 - 25$  dif sq

8.  $3x^2 - 13x - 10$  decomp

9.  $d^2 - 6d - 16$  simp tri

10.  $45d^5 - 36d$  mon

11.  $4x^2 - y^2$  dif sq

12.  $x^2 - x - 6$  simp tri

13.  $3x^2 + 12x - 6$  mon

14.  $m^2 - 12mn + 36n^2$  simp tri

15.  $16m^2 - 49$  dif sq

16.  $2m^2 - m - 21$  decomp

17.  $b^2 + 7b - 18$  simp tri

18.  $9b^2 - 64$  dif sq

19.  $4k^2 - 9k - 9$  decomp

20.  $x^2 + 8x - 20$  simp tri

21.  $8m^2 - 72$  mon

22.  $12p^2 - 363$  mon.

23.  $x^2 + 6x + 9$  simp tri

24.  $(2a + b)^2 - 81$  dif sq

25.  $8x^2y - 32xy^2 + 16x^2y^2$  mon

26.  $3x^2 + 13x + 4$  decomp

27.  $9a^2 - 4$  dif sq

28.  $35a + 10a^2$  mon

29.  $4p^2 - 121$  dif sq

30.  $15a^2 - a - 2$  decomp

31.  $6x^2 - xy - 12y^2$  decomp

32.  $m^4 + 13m^2 + 36$  simp tri