**AAT Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**P3 P4 Review Worksheet & factor practice**

1. Write a polynomial expression that fits the description.
2. 6th degree and a leading coefficient of -0.5 b) 3rd degree and a leading coefficient of 7
3. Write an expression of something that isn’t a polynomial.
4. Simplify and then write the result in standard form.
5. (2x2 – 6x + 5) – (3x2 – 3x + 1) b) –(2x2 + 4) – (3x + 8)
6. 2x(x – 6) – 3(x – 7) c) 2(x2 + 4x – 6) + 3(x2 – 5x – 1)
7. Multiply.
8. ( 2x – 1) ( x + 6) b) (3x – 5)2
9. ( 2x + 5)3 d) (2x – 3)(x2 – 3x – 6)
10. (3x2 + 5x – 2)(4x2 – x + 3) f) (3x + 4)(x – 4)2
11. Determine whether the expression represents a polynomial. If it does, state the degree, leading coefficient and write in standard form. If it does not, explain why.

3x2 – 6x + 3x-2 + 7 8x3 – 3x2 + 5x4 – x 

1. Factor completely.
2. 35b3 – 15b2 – 49b + 21 b) 4x2 + 68x + 280

c) 8y3 – 8y2 – 5y + 5 d) 2x2 – 72

e) 3p2 – 19p + 30 f) 9n2 + 3n – 56

1.  2.  3.  4. 

5.  6.  7.  8. 

9.  10.  11.  12. 

13.  14.  15. 

**AAT Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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