| Objective | Example | Answer | Rating (Circle One) |
| :---: | :---: | :---: | :---: |
| Naming Polynomials | $\left(3 x-7 x^{2}+1\right)$ | Quadratic <br> Trinomial | $\bigcirc ;) \quad$ : |
| Adding Polynomials | $\left(-x-7 x^{2}+3\right)+\left(5 x^{2}-4-x\right)$ | $-2 x^{2}-2 x-1$ | (-) $)$ |
| Subtracting <br> Polynomials | $\left(7 x^{4}+x^{3}-2 x^{2}+1\right)-\left(5 x^{3}-4 x^{4}+2-7 x\right)$ | $11 x^{4}-4 x^{3}-2 x^{2}+7 x-1$ |  |
| Multiplying Polynomials (distributing a monomial) | $(3 k)\left(5 k^{4}-4 k^{2}+3\right)$ | $15 k^{5}-12 k^{3}+9 k$ | () $: \bigcirc$ |
| Multiplying Polynomials (two binomials ... FOIL) | $(7 x+3)(5 x-4)$ | $\begin{aligned} & 35 x^{2}-28 x+15 x-12 \\ & 35 x^{2}-13 x-12 \end{aligned}$ |  |
| Multiplying Polynomials (binomial to trinomial) | $(2 x+3)\left(4 x^{2}-x-9\right)$ | $\begin{aligned} & 8 x^{3}-2 x^{2}-18 x \\ & +12 x^{2}-3 x-27= \\ & 8 x^{3}+10 x^{2}-21 x-27 \end{aligned}$ |  |
| Writing an expression for the area of a figure |  | $\begin{aligned} & (2 x+4)(3 x+6)-(2 x-1)(3 x-1) \\ & 6 x^{2}+12 x+12 x+24-\left(6 x^{2}-2 x-3 x+1\right) \\ & 29 x+23 \end{aligned}$ | $\bigcirc \bigcirc \cdot$ |
| Squaring a Binomial | $(2 x+3)^{2}$ | $4 x^{2}+12 x+9$ | (-) $)$ |


| Factoring out a GCF | $16 q^{5}-21 q^{4}-3 q$ | $q\left(16 q^{4}-21 q^{3}-3\right)$ |  | $\because$ | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Factoring a Quadratic Trinomial (with a L.C. of 1) | $t^{2}+9 t+14$ | $(t+7)(t+2)$ |  | $\because$ | ¢ |
| Factoring a Quadratic Trinomial (with a L.C. not 1) | $12 t^{2}+5 t-3$ | $\frac{[4 t+3)(3 t-1)]}{[4 t}$ | $\bigcirc$ | $\odot$ | ¢ |
| Factoring a Quadratic Trinomial with a GCF | $-4 x^{2}+5 x+6$ | $\begin{aligned} & -1\left(4 x^{2}-5 x-6\right) \\ & -1(4 x+3)(x-2) \end{aligned}$ |  | $\odot$ | ¢ |
| Factoring a <br> Difference of Two Squares (D.O.T.S) | $121 w^{2}-49$ | $(11 \omega+7)(11 \omega-7)$ |  | $\odot$ | ¢ |
| Solving using ZPP | $(2 x+7)(x-3)=0$ | $2 x+7=0 \text { or } x-3=0$ $x=\frac{1}{2} \text { or } x=3$ |  | $\odot$ | - |
| Factoring and Solving using ZPP | $x^{2}-5 x=-6$ | $\begin{aligned} & x^{2}-5 x+6=0 \\ & (x-3)(x-2)=0 \\ & x=3 \text { or } x=2 \end{aligned}$ |  | $\because$ | ¢ |
| Factoring (including a GCF) and Solving with ZPP | $-7 x^{2}+14 x=0$ | $\begin{aligned} & -7 x(x+2)=0 \\ & x=0 \text { or } x=-2 \end{aligned}$ |  | $\stackrel{\odot}{-}$ | ¢ |

