

NAME: _____
DATE: _____**[3]** 1. Clearly label the following:

Coefficient	Degree of a polynomial	Constant term	Binomial	Variable	Leading term
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$$-3.2x^7 - 6$$

[3] 2. Circle all polynomials and cross out all expressions that are not polynomials.

$\frac{-2}{3}x^4 + 2x - 1$	πx^8	$\sqrt{5}x + 1$
$\frac{2}{x} + 4$	$5.2x^{-3} + 3x$	$\sqrt{-2}x^4 + 2x$

[2] 3. Determine the product and combine like terms.

$$(x^2 + 6x + 2)(x - 3)$$

[16]

4. Factor if possible. If the given expression is not factorable, state so in your final statement.

$x^2 - 6x + 9$	$128 - 18b^4$
L4 → $2x^2 + x - 3$	$15ab^3 - 3a^2b^2$
$-25a^2 + 121b^2$	$1 - 289y^4$
L4 → $x(y - 2) + 4(y - 2)$	$x^2 - 5x - 36$

Congratulations on learning so much!

