

Name: \_\_\_\_\_

Date: 3/3/20

Per: 8

### Dividing Polynomials Pre-Assessment

1.  $(18x^4 - 10x^2 + 6x^7) \div (2x^2)$

$$9x^2 - 5x + 3x^5$$

2.  $(x^2 + 7x + 12) \div (x + 3)$

$$x + 4$$

3.  $(3x^3 + 4x^2 - 3x + 7) \div (x + 2)$

$$3x^2 + 2x - 5 + 9x$$

4.  $(9x^2 + 8) \div (3x + 2)$

$$3x^2 + 5x$$

Name: \_\_\_\_\_

Date: 3/9/20Per: 8th $\frac{14}{20}$ **Divide.**

$$\checkmark 1. \frac{(3p^3 - 27p^2) \div 3p^2}{3p^2 \quad 3p^2}$$

$$\textcircled{p - 9}$$

$$\checkmark 2. (3c^2 - 5c - 2) \div (3c + 1)$$

$$\begin{array}{r} c - 2 \\ 3c + 1 \overline{) 3c^2 - 5c - 2} \\ \underline{-3c^2 + c} \phantom{-2} \\ -6c - 2 \\ \underline{- -6c - 2} \\ 0 \end{array}$$

$$\textcircled{c - 2}$$

$$\checkmark 3. (x^3 + 3x^2 - 2x + 6) \div (x - 1)$$

$$\begin{array}{r} x^2 + 4x + 2 \\ x - 1 \overline{) x^3 + 3x^2 - 2x + 6} \\ \underline{-x^3 - x^2} \phantom{-2x + 6} \\ 4x^2 - 2x \phantom{+ 6} \\ \underline{-4x^2 - 4x} \phantom{+ 6} \\ 2x + 6 \\ \underline{-2x - 2} \\ 8 \end{array}$$

$$\textcircled{x^2 + 4x + 2 + \frac{8}{x-1}}$$

$$-1 \quad \checkmark 4. (27y^3 + 64) \div (3y + 4)$$

$$\begin{array}{r} 9y^2 + 12y + 16 \\ 3y + 4 \overline{) 27y^3 + 0y^2 + 0y + 64} \\ \underline{-27y^3 + 36y^2} \phantom{+ 0y + 64} \\ 36y^2 + 0y \phantom{+ 64} \\ \underline{-36y^2 + 48y} \phantom{+ 64} \\ 48y + 64 \\ \underline{-48y + 64} \\ 0 \end{array}$$

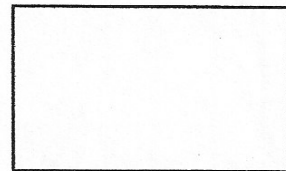
$$\textcircled{9y^2 + 12y + 16 - 12y}$$

- $\checkmark 5.$  The area of the rectangle is  $x^4 - 9x^3 - 7x^2 - 8x + 2$ . The length is given. What is the width?

work is on the back



$$\textcircled{x^2 - 10x + 2}$$



$$x^2 + x + 1$$



$$\begin{array}{r}
 \textcircled{x^2 - 10x + 2} \\
 x^2 + x + 1 \overline{) x^4 - 9x^3 - 7x^2 - 8x + 2} \\
 \underline{- x^4 + x^3 + x^2} \phantom{+ 2} \\
 -10x^3 - 8x^2 - 8x \phantom{+ 2} \\
 \underline{- (-10x^3 - 10x^2 - 10x)} \phantom{+ 2} \\
 2x^2 + 2x + 2 \\
 \underline{- (2x^2 + 2x + 2)} \\
 0
 \end{array}$$