

Name: _____

Date: _____

Per: _____

Dividing Polynomials Pre-Assessment

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

$$18x^4 - 10x^2 + 6x^7$$

$$6x^7 + 18x^4 - 10x^2$$

$$(2x^2) (2x^2)$$

$$4x^4$$

$$14x^4 - 10x^2 + 6x^7$$

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

$$(x+3)(x+3)$$

$$x^2 + 3x + 3x + 9$$

$$x^2 + 6x + 9$$

$$(x^2 + 7x + 12)$$

$$x^2 + 6x + 9$$

$$x^2 + 11x + 3$$

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

$$(x+2)(x+2)$$

$$x^2 + 2x + 2x + 4$$

$$x^2 + 4x + 4$$

$$(3x^3 + 4x^2 - 3x + 7)$$

$$x^2 + 4x + 4$$

$$5x^2 - 1x + 11$$

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

Divide.

✓ 1. $(3p^3 - 27p^2) \div 3p^2$

$$3p^2 \overline{) 3p^3 - 27p^2}$$

$p - 9$

Work on table

✓ 2. $(3c^2 - 5c - 2) \div (3c + 1)$

$$3c + 1 \overline{) 3c^2 - 5c - 2}$$

$c - 2$

Work on table

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

$$x - 1 \overline{) x^3 + 3x^2 - 2x + 6}$$

Work on table

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

$$3y + 4 \overline{) 27y^3 + 64}$$

Work on table

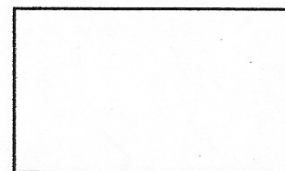
$x^2 + 4x + 2 + \frac{8}{x-1}$

$9y^2 - 12y + 16$

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



$$x^2 + x + 1 \overline{) x^4 - 9x^3 - 7x^2 - 8x + 2}$$



$x^2 + x + 1$

$x^2 - 8x^3 + 3$