

Unit 7; Name:

What is the degree of $3x^3y$?

What is the proper name of ...

$$3x^2 + 2x$$

Find the sum or difference:

$$(3x^3 - 2x + 3) + (x^3 + 2x^2 - 5x - 6)$$

$$(5x^2 - 3x + 15) - (2x^3 - 2x^2 + 4x - 6)$$

Factor

$$x^2 + 7x + 12$$

$$d^2 - 17d + 42$$

$$m^2 + 6m - 27$$

$$p^2 - 3p - 18$$

Factor

$$12x^2 - x - 6$$

$$6x^2 + 31x - 30$$

$$9x^2 - 49$$

Find the greatest common Factor

$$12x^4 + 3x^2 - 9x$$

$$8xy^2 + 4xy$$

$$-3x^3 - 6x^2 - 27$$

What is the product?

$$(2x + .5)(5x - 4)$$

$$(x - 1)(x^3 - 2x^2 + x - 5)$$

Simplify (state any excluded values)

$$\frac{2x^3 - 11x^2 + 22x - 15}{2x - 3}$$

Divide (state any excluded values)

$$(x^2 + 7x + 12) \div (x + 4)$$

$$(8x^3 - 3x^2 + 11x) \div (2x^2)$$

What is the combine area of these three squares?

The length of a side is $3 - x$.

