**Algebra 1A #1**

Give the definition of a rational number and give an example.

Give the definition of an irrational number and give an example.

**Algebra 1A #2**

Subtract the polynomials $5x^{2}+8x-24$

 $3x^{2}-10$

**Algebra 1A #3**

Factor the polynomial. $(9x^{4}+27x^{3}-18x+6)$

**Algebra 1A #4**

Multiply the following polynomials.

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

**Algebra 1A #5**

A woman goes to the store to shop for clothes. She buys s shirts, p pants, and a accessories. What does the following expression respresent?

$$14.30s+9.99p+4.99a$$

1. The total number of items purchased.
2. The cost of each item.
3. The total cost of all items purchased.
4. The average cost of all items purchased.

**Algebra 1A #6**

$$x=\frac{f}{8}$$

Which of the following is true about x?

1. $x=f$
2. $x<f$
3. $x\geq f$
4. $x>f$