Unit 3 Benchmark

1.) Determine the quotient of the following expression.

$$(6x^{3} + x^{2} - 10x + 3) + 2x + 3$$

$$2x + 3 \overline{\smash{\big)}\ 6x^{3} + x^{3} - 10x + 3}$$

$$-6x^{3} - 9x^{2} + 10x$$

$$-8x^{3} - 10x$$

$$-8x^{3} + 12x$$

$$2x + 3$$

$$-2x - 3$$

2.) Determine the quotient of the following expression.

3.) A rectangular pool has an area of $5x^2 + 23x + 12$ and the length of one side is 5x + 3. What is the length of the other side? **Hint: Division**

$$5x+3$$
 $5x^{2} + 23x + 12$ $x + 4$
 $-5x^{2} - 3x$
 $20x + 12$
 $-20x - 12$

4.) Solve for y. $(\sqrt{\frac{2y}{10}})^{\frac{1}{2}} (20)^{\frac{1}{2}}$ 10 $\cdot (\frac{2y}{10}) = (400) \cdot 10$ $\frac{2y}{2} = \frac{4000}{2}$ y = 2,000

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