

Unit 3 Benchmark

- 1.) Determine the quotient of the following expression.

$$(6x^3 + x^2 - 10x + 3) \div 2x + 3$$

$$\begin{array}{r} 2x+3 \overline{) 6x^3 + x^2 - 10x + 3} \\ \underline{-6x^3 - 9x^2} \downarrow \\ -8x^2 - 10x \\ \underline{+8x^2 + 12x} \\ 2x + 3 \\ \underline{-2x - 3} \\ 0 \end{array}$$

$$3x^2 - 4x + 1$$

- 2.) Determine the quotient of the following expression.

$$(8x^3 - 2x^2 - 7x + 3) \div 2x - 1$$

$$\begin{array}{r} 2x-1 \overline{) 8x^3 - 2x^2 - 7x + 3} \\ \underline{-8x^3 + 4x^2} \downarrow \\ 2x^2 - 7x \\ \underline{-2x^2 + 1x} \\ -6x + 3 \\ \underline{+6x - 3} \\ 0 \end{array}$$

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

- 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

$$\begin{array}{r} 5x+3 \overline{) 5x^2 + 23x + 12} \\ \underline{-5x^2 - 3x} \\ 20x + 12 \\ \underline{-20x - 12} \\ 0 \end{array}$$

$$x + 4$$

- 4.) Solve for y. $\left(\sqrt{\frac{2y}{10}}\right)^2 = (20)^2$

$$10 \cdot \left(\frac{2y}{10}\right) = (400) \cdot 10$$

$$\frac{2y}{2} = \frac{4000}{2} \quad y = 2,000$$

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PT Brinkman



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