

1. Add and write the resulting polynomial in descending order of degree.

$$(-4x^3 + \underline{2x^2} - \underline{3x} + \underline{2}) + (\underline{3x^3} + \underline{2x} + \underline{1})$$

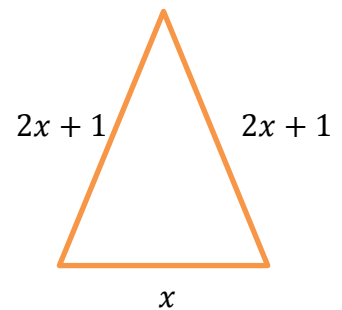
$$= \boxed{-x^3 + 2x^2 - x + 3}$$

2. Write an expression in simplest form for the perimeter of the triangle shown.

↑
add

$$\text{Perimeter} = (\underline{2x+1}) + (\underline{2x+1}) + \underline{x}$$

$$= \boxed{5x + 2}$$



3. Subtract and write the resulting polynomial in descending order of degree.

$$(9x^5 - 4x^3 + 5x - 2) - (3x^3 - 2x^2 + 8x - 11)$$

$$= (\underline{9x^5} - \underline{4x^3} + \underline{5x} - \underline{2}) + (\underline{-3x^3} + \underline{2x^2} - \underline{8x} + \underline{11})$$

$$= \boxed{9x^5 - 7x^3 + 2x^2 - 3x + 9}$$

(see back for review problems)

Review:

4. Are the following numbers divisible by 3? Use the divisibility rules to show your work.

8803

$$8 + 8 + 0 + 3 = 19 \leftarrow \text{Not div. by 3} \quad \boxed{\text{No}}$$

452196

$$4 + 5 + 2 + 1 + 9 + 6 = 27 \leftarrow \text{Div. by 3} \quad \boxed{\text{Yes}}$$

5. Evaluate the following:

$$-6^2 = \boxed{-36}$$

$$24 \div 3 \cdot 8 = 8 \cdot 8 = \boxed{64}$$

$$(-2)^4 = \boxed{16}$$

$$5 - 3(4 + 2) = 5 - 3(6) = 5 - 18 = \boxed{-13}$$

6. Circle the units that could describe **area**: ft $\textcircled{ft^2}$ ft^3

7. Circle the units that could describe **distance**: \textcircled{ft} ft^2 ft^3

8. Circle the units that could describe **volume**: ft ft^2 $\textcircled{ft^3}$

9. Circle the units that could describe **perimeter**: \textcircled{ft} ft^2 ft^3

Q: What holds water yet is full of holes?