DAILY QUEST:
Add or Subtract Polynom

1) $\left(3 x^{4}+5 x^{3}-4\right) \ominus\left(2 x^{2}-4 x^{3}+9\right)$

$$
\begin{gathered}
3 x^{4}+5 x^{3}-4-2 x^{2}+4 x^{3}-9 \\
3 x^{4}+9 x^{3}-2 x^{2}-13
\end{gathered}
$$



## PROBLEM 1:

The length of the rectangle is 5 inches and the width is 3 inches. What is the area of the rectangle?


## PROBLEM IA:

## Multiply.



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PROBLEM 2:

$$
\begin{aligned}
\frac{\text { Multiply. }}{\frac{5}{2}\left(\frac{\left.3 x^{2}-8\right)}{\text { binomial }}\right.}= & =15 x^{2}-40 \\
& \frac{3 x^{2}}{15 x^{2}-8}-40
\end{aligned}
$$

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PROBLEM RC:
Multiply.

$$
\left.\underbrace{4 x^{6}\left(-3 x^{2}-9\right)}_{-12 x^{8}-36 x^{6}} \frac{-3 x^{6}}{}+\frac{-9}{-12 x^{8}} \right\rvert\,-36 x^{6}
$$

PROBLEM 3:
Multiply.


## PROBLEM 3A:

## Multiply.

$2 x^{2}\left(5 x^{3}-3 x+2\right)$

## PROBLEM 3B:

## Multiply. <br> $-3 x^{4}\left(2 x^{2}-x+6\right)$

PROBLEM 4:
Evaluate the expression when $x=4$ and $y=5$

$$
\begin{array}{cc|c}
x y+(y-x)^{3} & P & 10 x \div 2 y+9 \\
(4)(5)+(5-4)^{3} & E & 10(4) \div 2(5)+9 \\
(4)(5)+(1)^{3} & L & \text { to } \\
(4) \div D & 40 \div 2(5)+9 \\
(5)(5)+1 & R & D / M
\end{array}
$$

PROBLEM AA:
Evaluate the expression when $x=-4$ and $y=5$

$$
\begin{array}{cc}
x y-(y+3 y) & 2 x^{2}+(10-y)^{2} \\
(-4)(5)-(5+3(5)) & 2(-4)^{2}+(10-5)^{2} \\
(-4)(5)-(5+15) & 2(-4)^{2}+5^{2} \\
-20-20 & 2(16)+25 \\
-40 & 32+25 \\
& 57
\end{array}
$$

## PROBLEM 4B:

Evaluate the expression when $x=6$ and $y=2$
$y+x^{2}-y x$

