5.6 Multiplying \& Dividing a Polynomial by a

Monomial
May 15,2015 1:07 PM
symbolically
Find each product
(a)

$$
\begin{aligned}
& 3 x(9 x-4) \quad(b)-6 x(-7 x+5) \\
= & \left(3 x^{\prime}\right)\left(9 x^{1}\right)+(3 x)(-4)=(-12 x)=42 x^{2}-30 x \\
= & 27 x^{2} \\
= & 27 x^{2}-12 x
\end{aligned}
$$

Find the quotient
(a)

$$
\begin{array}{ll}
\frac{-8 s^{2}+6 s}{-2 s} & \text { (b) }\left(9 x^{2}\right)-(-3 x) \\
=\frac{-8 s^{2}}{-28}+\frac{6 s}{-2 f} & =\frac{9 x^{2}}{-3 x} \\
=4 s+(-3) & =-3 x \\
=4 s-3
\end{array}
$$

White the multiplication sentence modelled by the rectangle



$$
\begin{aligned}
& 2 x(3 x+5) \\
& =10 x^{2}+6 x
\end{aligned}
$$

Write the multiplication sentence
(a)


$$
(2 x)(2 x)=4 x^{2}
$$



$$
2 x(x+3)
$$

$$
=2 x^{2}+6 x
$$

$$
\operatorname{pg} 255 \# 4-12,14,16,20,21
$$

