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Factor each completely.

$$\frac{[3\alpha^{2}(4\alpha-3)+1(4\alpha-3)]}{[4\alpha-3)(3\alpha^{2}+1)}$$

3)
$$3n^3 - 4n^2 + 9n - 12$$

$$\left[n^2 (3n - 4) + 3(3n - 4) \right]$$

$$\left(n^2 + 3 \right) (3n - 4)$$

Date_____ Period___

$$\frac{[p^{2}(2p+5)+3(2p+5)]}{[2p+5)(p^{2}+3)} =$$

4)
$$12n^3 + 4n^2 + 3n + 1$$

 $\left[4n^2(3n+1) + 1(3n+1)\right]$
 $\left[4n^2 + 1\right)(3n+1)$

$$\frac{6) 5n^3 - 10n^2 + 3n - 6}{\left[5n^2 \left(n - 2\right) + 3\left(n - 2\right)\right]}$$

$$\left(5n^2 + 3\right)\left(n - 2\right)$$

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