

## Gr 10 Factoring Review #3

Factor the common factor out of each expression.

1)  $-12v^9 + 10v + 12$

$$2(-6v^9 + 5v + 6)$$

2)  $28p^4q^2 + 24p^2r + 36p^2$

$$4p^2(7p^2q^2 + 6r + 9)$$

Factor each completely.

3)  $b^2 - 6b - 16$

$$(b-8)(b+2)$$

4)  $9n^2 - 16n - 4$

$$\begin{array}{r} 36 \\ 18 \end{array} \begin{array}{r} 1 \\ 2 \end{array}$$

$$9n^2 - 18n + 2n - 4$$

$$9n(n-2) + 2(n-2)$$

$$(n-2)(9n+2)$$

5)  $p^2 - 9$

$$(p+3)(p-3)$$

6)  $6m^2 + 48m - 54$

$$6(m^2 + 8m - 9)$$

$$6(m+9)(m-1)$$

7)  $50n^2 - 75n$

$$25n(2n-3)$$

8)  $8p^2 - 2$

$$2(4p^2 - 1)$$

$$2(2p+1)(2p-1)$$