

# Warm Up

Factor

1.  $2xy - 4x + 3ny - 6n$

2.  $-5x^2 - 20xy$

3.  $4x^2 - 8x - 252$

4.  $10n^2 - 29n - 72$

5.  $25x^4 - 16y^4$

6.  $16x^2 + 24x + 9$

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Factor

1.  $2xy - 4x + 3ny - 6n$   
 $2x(y-2) + 3n(y-2)$   
 $(y-2)(2x+3n)$

2.  $-5x^2 - 20xy$   
 $-5x(x+4y)$   
 or  
 $5x(-x-4y)$

3.  $4x^2 - 8x - 252$   $m = -63$   
 $4(x^2 - 2x - 63)$   $n = -\frac{2}{9} + 7$   
 $4(x-9)(x+7)$

4.  $10n^2 - 29n - 72$   $m = -720$   
 $4 = -29$   
 $10n^2 + 16n - 45n - 72$   
 $2n(5n+8) - 9(5n+8)$   $\begin{matrix} 10 & 72 \\ 12 & 60 \\ \hline 15 & 48 \\ 18 & 40 \end{matrix}$   
 $(5n+8)(2n-9)$

5.  $25x^4 - 16y^4$   
 $(5x^2 + 4y^2)(5x^2 - 4y^2)$

6.  $16x^2 + 24x + 9$   $m = 144$   
 $16x^2 + 12x + 12x + 9$   $n = 24$   
 $4x(4x+3) + 3(4x+3)$   
 $(4x+3)^2$

Homework...

[Chapter Review Worksheet](#)