

30 Factoring - Grouping

30 Factoring - Grouping

31 Factoring - Grouping

MATH
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Factoring Flow			
1. Check for Greatest Common Factor	Ex. $3x^2 + 6x$ $= 3x(x + 2)$	Ex. $-4x^2 + 8x^2 + 4x$ $= -4x(x - 2 + 1)$	
	Difference of 2 Square Grouping $(x^2 + 5x + 6)(x^2 + 7x + 12)$		
2. Check for Square Trinomial	Ex. $x^2 + 8$ $= (x + 2)(x + 2)$	Ex. $x^2 - 16$ $= (x + 4)(x - 4)$	
	Sum of Square Grouping $(x^2 + 4x + 4)(x^2 + 6x + 9)$		
3. Check for Binomial Factorization	Ex. $x^2 + 6$ $= (x + 2)(x + 3)$	Ex. $4x^2 - 12x + 9$ $= (2x - 3)(2x - 3)$	
	Binomial Factorization $(x + 2)(x + 3)(x + 4)(x + 5)$		

Algebra 2

Lesson 31

Factoring - Grouping

Making Practice Fun 31 Factoring

Mike Jess



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 shown in figure 3 1 the cylinder has a length l and a cross sectional area a since the cylinder is at rest the sum of the forces
 acting along the axis of the cylinder must be equal to zero

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 with fluid dynamics the study of fluids in motion even the most basic forms of fluid motion can be quite complex for this
 reason we limit our investigation to ideal fluids in many of the examples

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web chapter 2 pressure and fluid statics pressure for a static fluid the only stress is the normal stress since by definition a fluid subjected to a shear stress must deform and undergo motion normal stresses are referred to as pressure p for the general case the stress on a fluid element or at a point is a tensor for a static fluid

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the surface a particle underwater will feel the same pressure from all directions pressure increases linearly with depth $p = p_0 + \rho g h$ $p = p_0 + \rho g h$ assumes a constant density and thus is valid only for incompressible

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web these concepts are key to the solution of problems in fluid statics and lead to the following two points at the same depth in a static fluid have the same pressure the orientation of a surface has no bearing on the pressure at a point in a static fluid vertical depth is a key dimension in determining pressure change in a static fluid

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