FACTORING POLYNOMIALS – Day 1

Factor each polynomial. Look for GCF first! 2. $4x^2 + 56x + 160 =$ 1. $x^2 + 7x + 12 =$ 3. $x^2 + 5x - 24 =$ 4. $x^2 - 16x + 48 =$ 5. $x^2 - 2x - 35 =$ 6. $2x^2 + 8x - 42 =$ 7. $x^2 + 9x - 52 =$ 8. $x^{2} + 11x - 42 =$ 9. $3x^2 + 21x + 30 =$ 10. $3x^2 - 12x - 36 =$

11. $2x^2 - 2x - 40 =$	12. $2x^2 + 16x + 30 =$
13. $4x^2 + 48x + 128 =$	14. $x^2 - 10x + 21 =$
Answer the following. Show all work.	
15. Which of the following shows $3x^2 - 19x + 6$ in factored form?	
A. $(3x + 1)(x + 6)$ B. $(3x - 1)(x - 6)$	
D. $(3x - 1)(x - 6)$ C. $(3x + 1)(x - 6)$	
D. $(3x - 1)(x + 6)$	
16. The Math Club sold concessions at a football game. They used 300 hamburger buns and made \$1000. If the hamburgers sold for \$3 each and cheese burgers for \$3.50 each, which is a reasonable solution for the number of hamburgers sold?	
A. 50	
B. 100 C. 200	
D. 300	
17. What is the slope of the line whose equation is $5(2x - 3) = -8y + 2?$	
A. $\frac{7}{8}$ C. $-\frac{7}{8}$	
B. $\frac{5}{4}$ D. $-\frac{5}{4}$	