

Prep For Quiz Group Factoring and a = 1

Date _____ Period _____

Factor each completely.

1) $v^2 - 9v + 18$

2) $v^2 - 3v - 4$

3) $x^2 + 12x + 35$

4) $m^2 - m - 20$

5) $6a^3 + 14a^2 + 21a + 49$

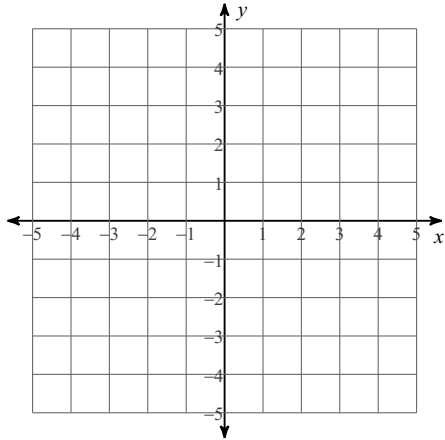
6) $7n^3 - 8n^2 + 21n - 24$

7) $14x^3 + 28x^2 + 49x + 98$

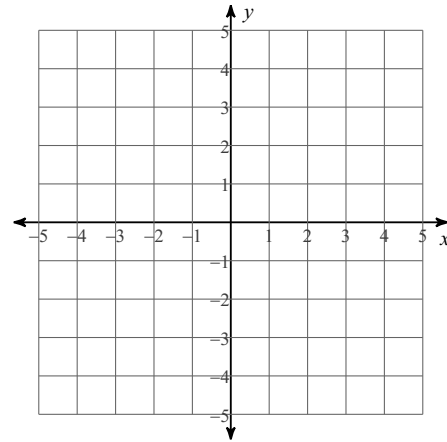
8) $40x^3 + 30x^2 - 56x - 42$

The Review: Solve each system by graphing, then solve by substitution.

9) $y = -x + 3$
 $y = 2x - 3$



10) $y = \frac{3}{2}x - 1$
 $y = \frac{3}{2}x + 2$



Find each product.

11) $(b - 2)(b - 7)$

12) $(8x + 2)(7x + 4)$

13) $(8x - 2)(8x + 2)$

14) $(3x + 1)^2$

Simplify each expression.

15) $(8x^2 + 8x^4) - (2x^3 + 6x^2 + 8x^4)$

16) $(3m^2 + 2m^3) + (4m^3 - 2m^2 - 2m^4)$

Answers to Prep For Quiz Group Factoring and a = 1 (ID: 1)

1) $(v - 6)(v - 3)$

5) $(2a^2 + 7)(3a + 7)$

9) $(2, 1)$

13) $64x^2 - 4$

2) $(v + 1)(v - 4)$

6) $(n^2 + 3)(7n - 8)$

10) No solution

14) $9x^2 + 6x + 1$

3) $(x + 7)(x + 5)$

7) $7(2x^2 + 7)(x + 2)$

11) $b^2 - 9b + 14$

15) $-2x^3 + 2x^2$

4) $(m + 4)(m - 5)$

8) $2(5x^2 - 7)(4x + 3)$

12) $56x^2 + 46x + 8$

16) $-2m^4 + 6m^3 + m^2$