

Algebra I Packet #2

Answer Key

I. Factor each polynomial (Answers #1-8).

1. $5(x+6y)$

5. $8bc(c+3)$

2. $4(4a+b)$

6. $5(2a^2+3x+5)$

3. $a(a^4b-1)$

7. $24(x+2y)$

4. $15ay(a-2)$

8. $x^2y^2(y+x^2)$

II. Factor each polynomial (trinomial) in the form x^2+bx+c

1) $(a+5)(a+3)$

6) $(p-8)(p-9)$

2) $(x+9)(x+3)$

7) $(g-15)(g-4)$

3) $(c+7)(c+5)$

8) $(h+8)(h-5)$

4) $(y+3)(y+10)$

9) $(y-7)(y+6)$

5) $(d-2)(d-5)$

10) $(x-20)(x+2)$

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III.

Factor each trinomial in the form $ax^2 + bx + c$ (Answers).

1) $(2x + 5)(x + 1)$

6) $(x - 4)(2x + 5)$

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

7) $(5c - 7)(c - 2)$

3) $(5d - 4)(d + 2)$

8) $(2y - 3)(4y + 3)$

4) $(3g - 2)(3g - 2)$

9) $(2x + 3)(7x - 4)$

5) $(2a + 3)(a - 6)$

10) $(5z + 9)(3z - 2)$

IV) Factor each (Answers)

difference of squares

1) $(x - 7)(x + 7)$

5) $(40x - 25)(40x + 50)$

2) $(x - 6)(x + 6)$

6) Omit

3) $(5 - 2p)(5 + 2p)$

7) Omit

4) $(10c - d)(10c + d)$

8) $(9x - yz)(9x + yz)$